ALPINE®

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ES

MP3/WMA/AAC CD Receiver

CDA-9887

MP3 Plays Windows Media™ AAC COMPACT disc DIGITAL AUDIO TEXT

HD Radio™ READY SAT RADIO READY Made for iPod

IMPRINT

- OWNER'S MANUAL
  Please read before using this equipment.
- MODE D'EMPLOI
  Veuillez lire avant d'utiliser cet appareil.
- MANUAL DE OPERACIÓN
  Léalo antes de utilizar este equipo.

ALPINE ELECTRONICS MARKETING, INC.
1-1-8 Nishi Gotanda,
Shinagawa-ku,
Tokyo 141-0031, Japan
Phone 03-5496-8231

ALPINE ELECTRONICS OF AMERICA, INC.
19145 Gramercy Place, Torrance,
California 90501, U.S.A.
Phone 1-800-ALPINE-1 (1-800-257-4631)

ALPINE ELECTRONICS OF CANADA, INC.
777 Supertest Road, Toronto,
Ontario M3J 2M9, Canada
Phone 1-800-ALPINE-1 (1-800-257-4631)

ALPINE ELECTRONICS OF AUSTRALIA PTY. LTD.
161-165 Princes Highway, Hallam
Victoria 3803, Australia
Phone 03-8787-1200

ALPINE ELECTRONICS GmbH
Frankfurter Ring 117, 80807 München, Germany
Phone 089-32 42 640

ALPINE ELECTRONICS OF U.K. LTD.
Alpine House
Fletchamstead Highway, Coventry CV4 9TW, U.K.
Phone 0870-33 33 763

ALPINE ELECTRONICS FRANCE S.A.R.L.
(RCS PONTOISE B 338 101 280)
98, Rue de la Belle Etoile, Z.I. Paris Nord II,
B.P. 50016, 95945 Roissy Charles de Gaulle
Cedex, France
Phone 01-48638989

ALPINE ITALIA S.p.A.
Viale C. Colombo 8, 20090 Trezzano
Sul Naviglio (MI), Italy
Phone 02-484781

ALPINE ELECTRONICS DE ESPAÑA, S.A.
Portal de Gamarra 36, Pabellón, 32
01013 Vitoria (Alava)-APDO 133, Spain
Phone 945-283588

ALPINE ELECTRONICS (BENELUX) GmbH
Leuvensesteenweg 510-B6,
1930 Zaventem, Belgium
Phone 02-725-13 15

SUZHOU CRESTEC PRINTING CO., LTD.China
596-598 Chang Jiang Road, Suzhou, Jiangsu, P.R.China

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Experience music the way the artist intended

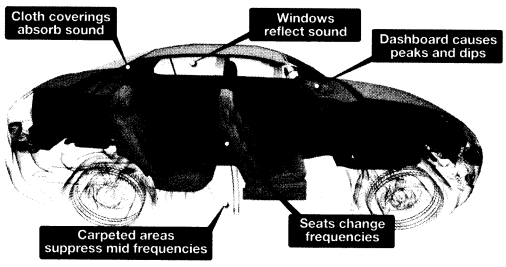
Alpine introduces IMPRINT — the world's first technology that thoroughly eliminates in-car acoustic problems that normally degrade sound quality.

VISION VS. REALITY

All good music starts as an artist's vision. After countless hours of rehearsing, recording and mixing, that vision is ready for us to hear on discs, radio and other media. But do we hear it as the artist created it? Unfortunately, the reality is that we are almost never able to listen to it in the exact way the artist intended. Especially when we are listening in a car.

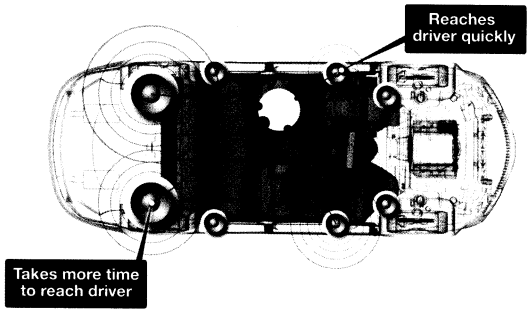
CARS ARE TERRIBLE LISTENING SPACES

Car interiors are full of materials that obstruct and degrade sound quality. For example, windows amplify and reflect high frequencies. Seat and dashboard coverings change certain frequencies. Carpets absorb and suppress mid frequencies. Graphic and parametric EQs are only partial remedies for these problems. In addition, the speakers are not located at equal distances from listeners, creating an unbalanced, uncentred sound stage. Time correction can help fix this, but only for one listening position.


Cloth coverings absorb sound
Windows reflect sound
Dashboard causes peaks and dips
Carpeted areas suppress mid frequencies
Seats change frequencies

INTRODUCING IMPRINT

These acoustical problems are so severe that no correction system has been able to overcome them. Until now. With the introduction of IMPRINT, Alpine provides a hardware/software combination that not only solves these problems, it actually improves the sound stage, tonal balance and definition — and does it automatically, in a matter of minutes!



HOW IMPRINT IS DIFFERENT

IMPRINT using MultEQ is superior to other equalisation systems in five ways.

1. *It is the only system that measures the entire listening area, capturing time domain information from each listening location and applying a proprietary method for processing it to represent all seat locations. This gives the people in each seat the optimal listening experience.*
2. *It corrects both time and frequency problems, for an improved soundstage and smoother, more natural sound.*
3. *It uses dynamic frequency allocation to apply hundreds of points of correction to those areas where the sound problems are greatest.*
4. *It determines optimised blending points for low frequency crossovers.*
5. *It provides, in minutes, vehicle sound tuning that generally takes skilled professionals days to accomplish.*

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LIMITED WARRANTY

Operating Instructions

WARNING

⚠WARNING

This symbol means important instructions. Failure to heed them can result in serious injury or death.

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISES WHILE DRIVING.

Excessive volume levels that obscure sounds such as emergency vehicle sirens or road warning signals (train crossings, etc.) can be dangerous and may result in an accident. LISTENING AT LOUD VOLUME LEVELS IN A CAR MAY ALSO CAUSE HEARING DAMAGE.

MINIMIZE DISPLAY VIEWING WHILE DRIVING.

Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT DISASSEMBLE OR ALTER.

Doing so may result in an accident, fire or electric shock.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.

Failure to do so may result in fire or electric shock.

DO NOT BLOCK VENTS OR RADIATOR PANELS.

Doing so may cause heat to build up inside and may result in fire.

USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS.

Use for other than its designed application may result in fire, electric shock or other injury.

DO NOT PLACE HANDS, FINGERS OR FOREIGN OBJECTS IN INSERTION SLOTS OR GAPS.

Doing so may result in personal injury or damage to the product.

⚠CAUTION

This symbol means important instructions. Failure to heed them can result in injury or material property damage.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS.

Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Center for repairing.

DO NOT MIX NEW BATTERIES WITH OLD BATTERIES. INSERT WITH THE CORRECT BATTERY POLARITY.

When inserting the batteries, be sure to observe proper polarity (+ and –) as instructed. Rupture or chemical leakage from the battery may cause fire or personal injury.

⚠PRECAUTIONS

Product Cleaning

Use a soft dry cloth for periodic cleaning of the product. For more severe stains, please dampen the cloth with water only. Anything else has the chance of dissolving the paint or damaging the plastic.

Temperature

Be sure the temperature inside the vehicle is between +60°C (+140°F) and –10°C (+14°F) before turning your unit on.

Moisture Condensation

You may notice the CD playback sound wavering due to condensation. If this happens, remove the disc from the player and wait about an hour for the moisture to evaporate.

Damaged Disc

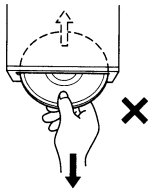
Do not attempt to play cracked, warped, or damaged discs. Playing a bad disc could severely damage the playback mechanism.

Maintenance

If you have problems, do not attempt to repair the unit yourself. Return it to your Alpine dealer or the nearest Alpine Service Station for servicing.

Never Attempt the Following

Do not grip or pull out the disc while it is being pulled back into the player by the automatic reloading mechanism.
Do not attempt to insert a disc into the unit when the unit power is off.

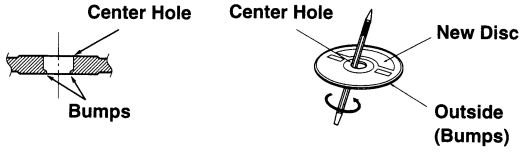


Inserting Discs

Your player accepts only one disc at a time for playback. Do not attempt to load more than one disc.
Make sure the label side is facing up when you insert the disc. "Error" will be displayed on your player if you insert a disc incorrectly. If "Error" continues to be displayed even though the disc has been inserted correctly, push the RESET switch with a pointed object such as a ballpoint pen.
Playing a disc while driving on a very bumpy road may result in skips, but this will not scratch the disc or damage the player.

New Discs

To prevent the CD from jamming, "Error" is displayed if discs with irregular surfaces are inserted or if discs are inserted incorrectly. When a new disc is ejected immediately after initial loading, use your finger to feel around the inside of the center hole and outside edge of the disc. If you feel any small bumps or irregularities, this could inhibit proper loading of the disc. To remove the bumps, rub the inside edge of the hole and outside edge of the disc with a ballpoint pen or other such instrument, then insert the disc again.



Irregular Shaped Discs

Be sure to use round shape discs only for this unit and never use any special shape discs.
Use of special shape discs may cause damage to the mechanism.

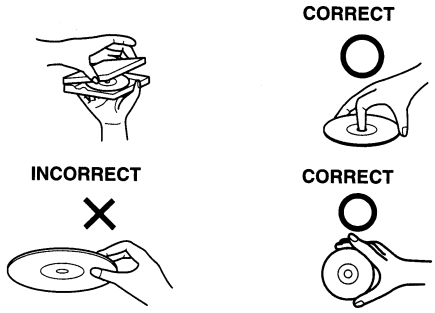
Installation Location

Make sure this unit will not be installed in a location subjected to:

- Direct sun and heat
- High humidity and water
- Excessive dust
- Excessive vibrations

Correct Handling

Do not drop the disc while handling. Hold the disc so you will not leave fingerprints on the surface. Do not affix tape, paper, or gummed labels to the disc. Do not write on the disc.



Disc Cleaning

Fingerprints, dust, or soil on the surface of the disc could cause the CD player to skip. For routine cleaning, wipe the playing surface with a clean, soft cloth from the center of the disc to the outer edge. If the surface is heavily soiled, dampen a clean, soft cloth in a solution of mild neutral detergent before cleaning the disc.

Disc Accessories

There are various accessories available on the market for protecting the disc surface and improving sound quality. However, most of them will influence the thickness and/or diameter of the disc. Using such accessories can cause the disc to be out of standard specifications and may create operational problems. We recommend not using these accessories on discs played in Alpine CD players.

On handling Compact Discs (CD/CD-R/CD-RW)

- Do not touch the surface.
- Do not expose the disc to direct sunlight.
- Do not affix stickers or labels.
- Clean the disc when it is dusty.
- Make sure that there are no bumps around the disc.
- Do not use commercially available disc accessories.

Do not leave the disc in the car or the unit for a long time. Never expose the disc to direct sunlight. Heat and humidity may damage the CD and you may not be able to play it again.

To customers using CD-R/CD-RW

- If a CD-R/CD-RW cannot be played back, make sure the last recording session was closed (finalized).
- Finalize the CD-R/CD-RW if necessary, and attempt playback again.

About media that can be played

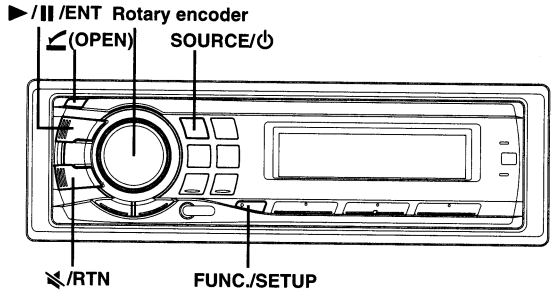
Use only compact discs with the label side showing the CD logo marks below.

If you use unspecified compact discs, correct performance cannot be guaranteed.
You can play CD-Rs (CD-Recordables)/CD-RWs (CD-ReWritables) which have been recorded only on audio devices. You can also play CD-Rs/CD-RWs containing MP3/WMA/AAC formatted audio files.

- Some of the following CDs may not play on this unit:
  Flawed CDs, CDs with fingerprints, CDs exposed to extreme temperatures or sunlight (e.g., left in the car or this unit), CDs recorded under unstable conditions, CDs on which a recording failed or a re-recording was attempted, copy-protected CDs which do not conform to the audio CD industry standard.
- Use discs with MP3/WMA/AAC files written in a format compatible with this unit. For details, see pages 11-12.
- ROM data other than audio files contained in a disc will not produce sound when played back.

- *Windows Media and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.*
- *Apple, the Apple logo, iPod and iTunes are trademarks of Apple Computer, Inc., registered in the U.S. and other countries.*
- ***"MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson."***
- ***"Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e. revenue-generation) real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent license for such use is required. For details, please visit http://www.mp3licensing.com"***
- ***Manufactured under license from Audyssey Laboratories MultEQ XT is a trademark of Audyssey Laboratories.***

Getting Started



Accessory List

- Head unit 1
- Power cable 1
- Mounting sleeve 1
- Carrying case 1
- Bracket key 2
- Screw (M5 x 8) 4
- Remote Control 1
- Battery (AAA size) 2
- Owner's Manual ..... 1 set

Turning Power On and Off

Press SOURCE/⏻ to turn on the unit.

- *The unit can be turned on by pressing any other button except (OPEN).*

Press and hold SOURCE/⏻ for at least 2 seconds to turn off the unit.

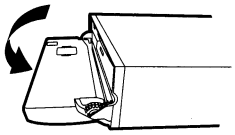
- *The first time power is turned on, the volume will start from level 12.*

Detaching and Attaching the Front Panel

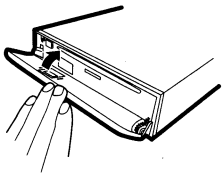
Detaching

1 Turn off the unit power.

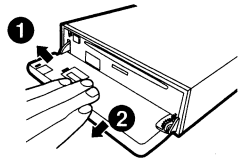
2 Press (OPEN) to open the front panel.



To close the front panel, press the left side until it locks as shown in the figure below.



3 Grasp the front panel firmly, slide to the left ❶, and then pull ❷ to remove.

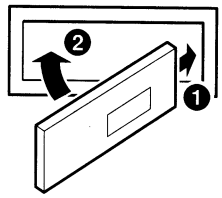


- *The front panel may become hot in normal usage (especially the connector terminals on the back of the front panel). This is not a malfunction.*
- *To protect the front panel, place it in the supplied carrying case.*
- *When detaching the front panel, do not apply excessive force as it may result in malfunction.*
- *Do not leave the front panel open, or drive the car with the panel open as it may result in an accident or malfunction.*

Attaching

1 Insert the right side of the front panel into the main unit. Align the groove on the front panel with the projections on the main unit.

2 Push the left side of the front panel until it locks firmly into the main unit.



- *Before attaching the front panel, make sure that there is no dirt or dust on the connector terminals and no foreign object between the front panel and the main unit.*
- *Attach the front panel carefully, holding the sides of the front panel to avoid pushing buttons by mistake.*

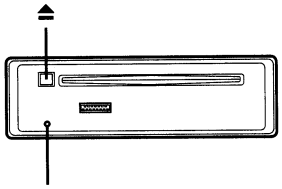
Initial System Start-Up

Be sure to press the RESET switch when using the unit for the first time, after changing the car battery, etc.

1 **Turn off the unit power.**

2 **Press ⏏ (OPEN) to open the front panel, and then remove it.**

3 **Press RESET with a ballpoint pen or similar pointed object.**



RESET switch

Adjusting Volume

Turn the Rotary encoder until the desired sound is obtained.

Lowering Volume Quickly

Activating the Audio Mute function will instantly lower the volume level by 20 dB.

Press 🔇/RTN to activate the MUTE mode.
The audio level will decrease by about 20 dB.

Pressing 🔇/RTN again will bring the audio back to its previous level.

Setting the Time and Calendar

1 **Press and hold FUNC./SETUP for at least 2 seconds to activate the SETUP selection mode.**

2 **Turn the Rotary encoder to select the GENERAL mode, and then press ▶/II /ENT.**

Bluetooth ↔ GENERAL ↔ AUDIO ↔ DISPLAY ↔ TUNER* ↔ Bluetooth

* *Only when HD Radio/SAT Radio is connected.*

3 **Turn the Rotary encoder to select Clock Adjust, and then press ▶/II /ENT.**

4 **Turn the Rotary encoder to set year.**

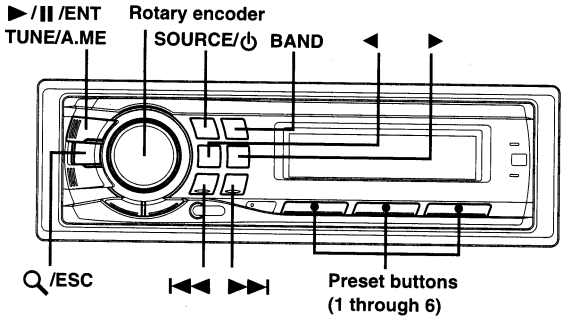
5 **Press ▶/II /ENT.**

6 **Repeat steps 4 and 5 above to set month, day, hour and minute.**

7 **Press and hold FUNC./SETUP for at least 2 seconds to return to normal mode.**

- *Pressing 🔇/RTN returns to the previous SETUP mode.*
- *If no operation is performed for 60 seconds, SETUP is canceled.*
- *To synchronize the clock to another clock/watch or radio time announcement, press and hold ▶/II /ENT for at least 2 seconds after setting the "hour". Minutes will reset to 00. If the display shows over "30" minutes when you do this, the time will advance one hour.*

Radio



This unit cannot receive HD Radio™ signals (digital terrestrial radio). In order to activate the digital radio functions described below, an optional HD Radio Tuner module must be connected through the Ai-NET bus.

HD Radio™ Technology Manufactured Under License From iBiquity Digital Corporation. iBiquity Digital and the HD Radio and HD Symbols are trademarks of iBiquity Digital Corporation. U.S. and Foreign Patents.

Listening to Radio

1 **Press SOURCE/⏻ to select TUNER mode.**

2 **Press BAND repeatedly until the desired radio band is displayed.**

FM1 → FM2 → AM → FM1

3 **Press TUNE/A.ME to select the tuning mode.**

DX (Distance mode) → LOCAL (Local mode) → MANUAL (Manual mode) → DX (Distance mode)

- *The initial mode is Distance mode.*

Distance mode:
Both strong and weak stations will be automatically tuned in (Automatic Seek Tuning).

Local mode:
Only strong stations will be automatically tuned in (Automatic Seek Tuning).

Manual mode:
The frequency is manually tuned in steps (Manual tuning).

4 **Press |◄◄ or ►►| to tune in the desired station.**
Holding down |◄◄ or ►►| will change the frequency continuously.

- *The "DIGITAL" appears on the display when a digital radio station which contains both audio and text information, is received.*
- *If Digital Seek is set to ON, the SEEK UP/DOWN functions only stop on digital station frequencies while receiving HD Radio. Refer to "Digital Seek ON/OFF Setting" (page 25).*

Presetting Stations Manually

1 **Select the radio band and tune in a desired radio station you wish to store in the preset memory.**

2 **Press and hold, for at least 2 seconds, any one of the preset buttons (1 through 6) into which you wish to store the station.**
The selected station is stored.
The display shows the band, preset number and station frequency memorized.

- *A total of 18 stations can be stored in the preset memory (6 stations for each band; FM1, FM2 and AM).*
- *If you store a station in a preset memory which already has a station, the current station will be cleared and replaced with the new station.*

Presetting Stations Automatically

1 **Press BAND repeatedly until the desired radio band is displayed.**

2 **Press and hold TUNE/A.ME for at least 2 seconds.**
The frequency on the display continues to change while the automatic memory is in progress. The tuner will automatically seek and store 6 strong stations in the selected band. They will be stored into preset buttons 1 to 6 in order of signal strength.
When the automatic memory has been completed, the tuner goes to the station stored in preset location No.1.

- *If no stations are stored, the tuner will return to the original station you were listening to before the auto memory procedure began.*

Tuning to Preset Stations

1 **Press BAND repeatedly until the desired band is displayed.**

2 **Press any one of the station preset buttons (1 through 6) that has your desired radio station in memory.**
The display shows the band, preset number and frequency of the station selected.

Frequency Search Function

You can search for a radio station by its frequency.

1 **Press and hold 🔍/ESC for at least 2 seconds in Radio mode to activate Frequency search mode.**

2 **Turn the Rotary encoder to select the desired frequency.**

3* **Press ▶/II /ENT to receive the selected frequency.**

* *Operation is not required during HD Radio reception.*

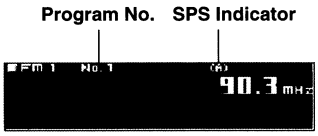
- *Press and hold 🔍/ESC for at least 2 seconds in the search mode to cancel. Or, the search mode will be canceled if no operation is performed for 10 seconds.*

Receiving a Multicast Station (HD Radio mode only)

Multicasting allows for broadcasting multiple program streams over a single FM frequency. This increases the amount and diversity of content choices. A maximum of eight multicast station channels can be selected on this unit.

When multicast station is received, the program number and the SPS indicator lights up. Press ◀ or ▶ to select the desired program service.

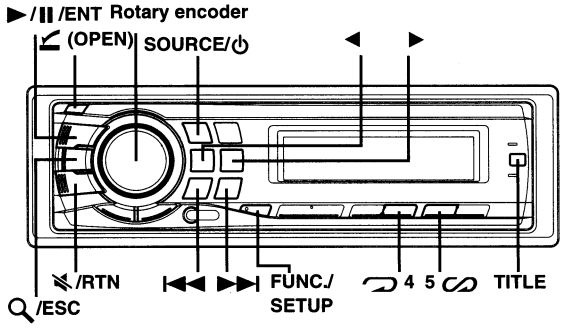
Receiving the Multicast Station Program Service.



Program Service example:

Multicast Radio Station	Program No.	Program Service
90.3MHz	No.1	MPS: Main Program Service
90.3MHz	No.2	SPS: Sub-program Service
90.3MHz	No.3	SPS: Sub-program Service
	|	
	|	
	|	
	|	
90.3MHz	No.8	SPS: Sub-program Service

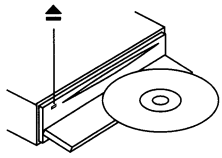
CD/MP3/WMA/AAC



Playback

1 **Press (OPEN).**
The front panel will open.

2 **Insert a disc with the label side facing up.**
The disc will be pulled into the unit automatically.



Close the front panel manually.
When a disc is already inserted, press SOURCE/⏻ to switch to the DISC mode.

TUNER → XM/SIRIUS*[1] → DISC → iPod*[2] → CHANGER*[3] → TUNER

*[1] *Only when XM Radio or Sirius Radio is connected.*
*[2] *Only when the iPod is connected.*
*[3] *Only when the CD changer is connected.*

3 **While playing back MP3/WMA/AAC, press ◀ or ▶ to select the desired folder.**
Pressing and holding ◀ or ▶ will change folders continuously.

4 **Press ⏮ or ⏭ to select the desired track (file).**

Returning to the beginning of the current track (file):
Press ⏮.

Fast backward:
Press and hold ⏮.

Advancing to the beginning of the next track (file):
Press ⏭.

Fast forward:
Press and hold ⏭.

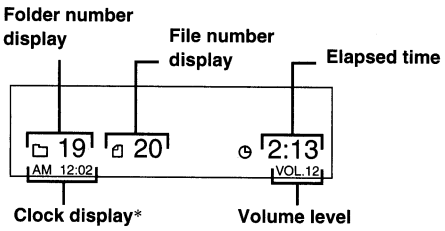
5 To pause playback, press ▶/II /ENT.
Pressing ▶/II /ENT again will resume playback.

6 After pressing ⏏ (OPEN) to open the front panel, press ▲ to eject the disc.

- *Do not remove a CD during its eject cycle. Do not load more than one disc at a time. A malfunction may result from doing either.*
- *If the CD does not eject, press and hold ▲ for at least 2 seconds.*
- *The CD-player can play discs containing audio data, MP3 data, WMA data and AAC data.*
- *WMA format files that are protected by DRM (Digital Rights Management), AAC format files that have been purchased from iTunes Music Store and files that are copy-protected (copyright protection) cannot be played back on this unit.*
- *The track display for MP3/WMA/AAC data playback is the file numbers recorded on the disc.*
- *The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.*

MP3/WMA/AAC Play Display

The folder number and file number will be displayed as described below.



* *Displayed when "Turning the Clock Display ON/OFF" (page 22) is set to ON.*

- *Press **TITLE** to switch the display. See "Displaying the Text" (page 20) for information about display switching.*

Repeat Play

Press 🔁 4 to play back repeatedly the track being played.
The track (file) will be played repeatedly.

Press 🔁 4 again and select off to deactivate repeat play.

CD mode :

RPT : Only a track is repeatedly played back.
RPT ⊙ *1 : A disc is repeatedly played back.
(off)

*1 *When a CD changer is connected.*

- *If RPT is set to ON during M.I.X. play in CD changer mode, M.I.X. will apply to the current disc only.*

MP3/WMA/AAC mode :

RPT : Only a file is repeatedly played back.
RPT 🗀 : Only files in a folder are repeatedly played back.
RPT ⊙ *2 : A disc is repeatedly played back.
(off)

*2 *When an MP3 compatible CD changer is connected.*

- *If a CD changer or an MP3 compatible CD changer is connected: After pressing **FUNC./SETUP** to select the function mode (RPT/M.I.X.), perform the operation within 10 seconds.*

M.I.X. (Random Play)

Press 5 🔀 in the play or pause mode.
The tracks (files) on the disc will be played back in random sequence.

To cancel M.I.X. play, press 5 🔀 again.

Internal CD mode :

M.I.X. : The tracks are played back in random sequence.
(off)

CD Changer mode :

M.I.X. : The tracks are played back in random sequence.
M.I.X. ⊙ *3 : The tracks on all the CDs in the current magazine will be included in the random playback sequence.
(off)

*3 *When a CD changer equipped with the ALL M.I.X. function is connected.*

- *If M.I.X. is set to ON during RPT ⊙ (REPEAT ALL) play in CD changer mode, M.I.X. will apply to the current disc only.*

MP3/WMA/AAC mode :

M.I.X. 🗀 : Only files in a folder are played back in random sequence.
M.I.X. ⊙ : The files are played back in random sequence.
If an MP3 compatible CD changer is connected, all files in a disc are played back in random sequence, and playback shifts to the next disc.
(off)

- *If a CD changer or an MP3 compatible CD changer is connected: After pressing **FUNC./SETUP** to select the function mode (RPT/M.I.X.), perform the operation within 10 seconds.*

Searching from CD Text

Tracks can be searched and played using the CD text on the disc. If a disc is not compatible with text, or a disc is in the changer, searches can be made by track number.

1 **Press 🔍/ESC during play.**
This will set the search mode.

2 **Turn the Rotary encoder to select the desired track, and then press ▶/II /ENT.**
This will play the selected track.

- *Press and hold 🔍/ESC for at least 2 seconds in the search mode to cancel. Or, the search mode is canceled if no operation is performed for 10 seconds.*
- *CD text search cannot be made during M.I.X. play.*

File/Folder Name Search (concerning MP3/WMA/AAC)

Folder and file names may be searched and displayed during playback.

1 **During MP3/WMA/AAC playback, press 🔍/ESC to activate the search mode.**

2 **Turn the Rotary encoder to select Folder Name Search mode or File Name Search mode, and then press ▶/II /ENT.**

Folder Name Search mode

3 **Turn the Rotary encoder to select the desired folder.**

4 **Press and hold ▶/II /ENT for at least 2 seconds to play back the first file in the selected folder.**

- *Press and hold 🔍/ESC for at least 2 seconds in the search mode to cancel. Or, the search mode is canceled if no operation is performed for 10 seconds.*
- *To search for files in the Folder Name Search mode, press ▶/II /ENT. Files in the folder may be searched.*
- *Press 🔇/RTN to exit Folder Name Search mode in step 3 in order to select File Name Search mode.*
- *The root folder is displayed as "ROOT".*
- *Folder Name Search cannot be made during M.I.X. play.*

File Name Search mode

3 **Press ◀ or ▶ to select another Folder.**

4 **Select the desired file by turning the Rotary encoder.**

5 **Press ▶/II /ENT to play back the selected file.**

- *Press and hold 🔍/ESC for at least 2 seconds in the search mode to cancel. Or , the search mode is canceled if no operation is performed for 10 seconds.*
- *Press 🔇/RTN in the search mode to return to the previous mode.*
- *File Name Search cannot be made during M.I.X. play.*

Quick Search

You can search for tracks (files).

1 **Press and hold 🔍/ESC for at least 2 seconds in the CD/Changer/MP3/WMA/AAC mode to activate Quick Search mode.**

2 **Turn the Rotary encoder to select a desired track (file).**
The selected track is played back immediately.

- *Press and hold 🔍/ESC for at least 2 seconds in the search mode to cancel. Or, the search mode is canceled if no operation is performed for 10 seconds.*

About MP3/WMA/AAC

CAUTION

Except for private use, duplicating audio data (including MP3/WMA/AAC data) or distributing, transferring, or copying it, whether for free or for a fee, without permission of the copyright holder is strictly prohibited by the Copyright Act and by international treaty.

What is MP3?

MP3, whose official name is "MPEG-1 Audio Layer 3," is a compression standard prescribed by the ISO, the International Standardization Organization and MPEG which is a joint activity institution of the IEC.

MP3 files contain compressed audio data. MP3 encoding is capable of compressing audio data at extremely high ratios, reducing the size of music files to as much as one-tenth their original size. This is achieved while still maintaining near CD quality. The MP3 format realizes such high compression ratios by eliminating the sounds that are either inaudible to the human ear or masked by other sounds.

What is AAC?

AAC is the abbreviation for "Advanced Audio Coding," and is a basic format of audio compression used by MPEG2 or MPEG4.

What is WMA?

WMA, or "Windows Media™ Audio," is compressed audio data. WMA is similar to MP3 audio data and can achieve CD quality sound with small file sizes.

Method for creating MP3/WMA/AAC files

Audio data is compressed using software with MP3/WMA/AAC codecs. For details on creating MP3/WMA/AAC files, refer to the user's manual for that software.
MP3/WMA/AAC files that can be played back this device have the following file extensions.
MP3: "mp3"
WMA: "wma" (ver. 7.1, 8 and 9 are supported)
AAC: "m4a"

There are many different versions of the AAC format. Confirm that the software being used conforms to the acceptable formats listed above. It's possible that the format may be unplayable even though the extension is valid.
Playback of AAC files encoded by iTunes version 7.0 or earlier is supported.

Supported playback sampling rates and bit rates

MP3
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz
Bit rates: 8 - 320 kbps

WMA
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz
Bit rates: 48 - 192 kbps

AAC
Sampling rates: 48 kHz, 44.1 kHz, 32 kHz, 24 kHz, 22.05 kHz, 16 kHz, 12 kHz, 11.025 kHz, 8 kHz
Bit rates: 16 - 320 kbps

This device may not play back correctly depending on sampling rates.

ID3 tags/WMA tags

This device supports ID3 tag v1 and v2, and WMA tag.
If tag data is in an MP3/WMA/AAC file, this device can display the title (track title), artist name, and album name ID3 tag/WMA tag data.
This device can only display single-byte alphanumeric characters (up to 30 for ID3 tags and up to 15 for WMA tags) and the underscore. For non-supported characters, the display is blank.
The tag information may not be correctly displayed, depending on the contents.

Producing MP3/WMA/AAC discs

MP3/WMA/AAC files are prepared, then written to a CD-R or CD-RW using CD-R writing software. A disc can hold up to 510 files/folders (including Root Folders), and the maximum number of folders is 255.
Playback may not be performed if a disc exceeds the limitations described above.

Media supported

The media that this device can play back are CD-ROMs, CD-Rs, and CD-RWs.

Corresponding File Systems

This device supports discs formatted with ISO9660 Level 1 or Level 2.

Under the ISO9660 standard, there are some restrictions to remember.

The maximum nested folder depth is 8 (including the root directory). The number of characters for a folder/file name is limited.

Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and '_' (underscore).

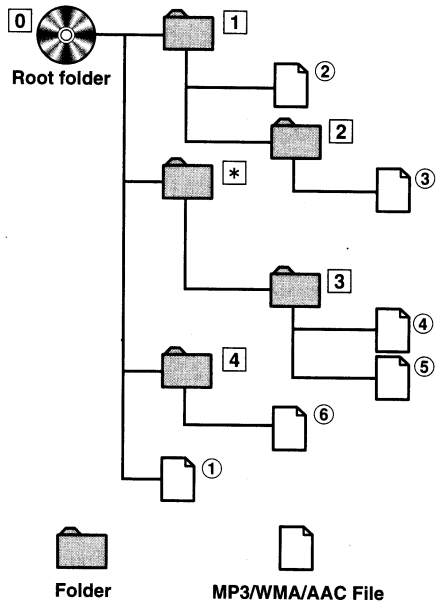
This device also can play back discs in Joliet, Romeo, etc., and other standards that conform to ISO9660. However, sometimes the file names, folder names, etc., are not displayed correctly.

Formats supported

This device supports CD-ROM XA, Mixed Mode CD, Enhanced CD (CD-Extra) and Multi-Session.
This device cannot correctly play back discs recorded with Track At Once or packet writing.

Order of files

Files are played back in the order that the writing software writes them to the disc. Therefore, the playback order may not be what is expected. Verify the writing order in the software's documentation. The playback order of the folders and files is as follows.



* *The folder No./folder Name will not be displayed if no file is contained in the folder.*

Terminology

Bit rate

This is the "sound" compression rate specified for encoding. The higher the bit rate, the higher the sound quality, but also the larger the files.

Sampling rate

This value shows how many times per second the data is sampled (recorded). For example, music CDs use a sampling rate of 44.1 kHz, so the sound is sampled (recorded) 44,100 times per second. The higher the sampling rate, the higher the sound quality, but also the larger the volume of data.

Encoding

Converting music CDs, WAVE (AIFF) files, and other sound files into the specified audio compression format.

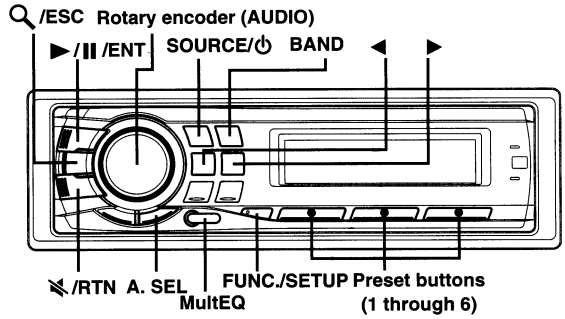
Tag

Song information such as track titles, artist names, album names, etc., written into MP3/WMA/AAC files.

Root folder

The root folder (or root directory) is found at the top of the file system. The root folder contains all folders and files. It is created automatically for all burned discs.

Sound Setting



Adjusting Bass/Treble/Balance (Between Left and Right)/Fader (Between Front and Rear)/Defeat

1 Press Rotary encoder (AUDIO) repeatedly to choose the desired mode.

Each press changes the mode as follows:

SUBWOOFER*[1] → BASS*[2] → TREBLE*[2] → BALANCE → FADER*[3] → DEFEAT → VOLUME → SUBWOOFER*[1]

Subwoofer: 0 ~ +15
Bass level: -7~+7
Treble level: -7~+7
Balance: L15 ~ R15
Fader: R15 ~ F15
Defeat: ON/OFF
Volume: 0 ~ 35

- *If no operation is performed for 5 seconds after selecting the SUBWOOFER, BASS, TREBLE, BALANCE, FADER or DEFEAT mode, the unit automatically returns to normal mode.*

*[1] *When the subwoofer mode is set to OFF, its level cannot be adjusted.*
*[2] *When the MultEQ is set to OFF, its level cannot be adjusted.*
*[3] *If you set the 4.2ch/2.2ch switch (pages 40 to 42) to 2.2ch, you cannot adjust the FADER mode.*

2 Turn the Rotary encoder (AUDIO) until the desired sound is obtained in each mode.

By setting DEFEAT ON, previously adjusted settings of BASS, TREBLE and EQ will return to the factory defaults and MX (page 19) is turned off.

- *Depending on the connected devices, some functions and display indications do not work.*

Turning MultEQ on/off

MultEQ, developed by Audyssey Labs, automatically corrects the audio for the listening environment. The system is optimized for selected positions in the vehicle. To accomplish this, MultEQ must take measurements of the vehicles response characteristics. For details on the set up procedure, consult your authorized Alpine dealer.

Press MultEQ to select ON/OFF mode.

- *If MultEQ is turned on and its button pressed and held for at least 2 seconds, the Curve mode is switched (only when curve1 and curve2 are stored).*
- *When using MultEQ, MX, X-OVER, T.Correction, User's EQ, Parametric EQ and Graphic EQ are set automatically. They are no longer user adjustable.*
- *When an external audio processor is connected, the MultEQ function cannot be used.*

Equalizer Presets

10 typical equalizer settings are preset at the factory for a variety of musical source material.

1 Press and hold FUNC./SETUP for at least 2 seconds to setup the Selection mode.

2 Turn the Rotary encoder to select AUDIO mode, and then press ►/II /ENT.

Bluetooth ↔ GENERAL ↔ AUDIO ↔ DISPLAY ↔ TUNER* ↔ Bluetooth

* *Only when HD Radio/SAT Radio is connected.*

3 Turn the Rotary encoder to select Factory's EQ mode, and then press ►/II /ENT.

4 Turn the Rotary encoder to select the desired equalizer characteristic, and then press ►/II /ENT.

Flat ↔ Pops ↔ Rock ↔ News ↔ Jazz&Blues ↔ Electrical Dance ↔ Hip Hop&Rap ↔ Easy Listening ↔ Country ↔ Classical ↔ User1 ↔ User2 ↔ User3 ↔ User4 ↔ User5 ↔ User6

- *By selecting User's 1 to 6, you can recall the stored preset number in "Adjusting and Storing the Graphic Equalizer Curve" (page 14) or "Adjusting and Storing the Parametric Equalizer Curve". (page 14).*

5 Press and hold FUNC./SETUP for at least 2 seconds to return to normal mode.

- *Pressing /RTN during the procedure will return to the previous mode.*
- *If no operation is performed for 60 seconds in the SETUP mode, the setting mode is canceled.*
- *This function is inoperable when DEFEAT is set to ON (page 13).*
- *Press and hold /ESC for at least 2 seconds, the setting mode is canceled.*

Setting EQ mode

This setting gives you a choice of 5-band parametric, or 7-band graphic equalizer.

1 Press and hold FUNC./SETUP for at least 2 seconds to setup the Selection mode.

2 Turn the Rotary encoder to select AUDIO mode, and then press ▶/II /ENT.

Bluetooth ↔ GENERAL ↔ AUDIO ↔ DISPLAY ↔ TUNER* ↔ Bluetooth

* *Only when HD Radio/SAT Radio is connected.*

3 Turn the Rotary encoder to select EQ Mode, and then press ▶/II /ENT.

4 Turn the Rotary encoder to select the desired equalizer characteristic, and then press ▶/II /ENT.

Parametric EQ (Initial setting) ↔ Graphic EQ

PEQ: 5-band Parametric EQ (Initial setting)
GEQ: 7-band Graphic EQ

5 Press and hold FUNC./SETUP for at least 2 seconds to return to normal mode.

- *Pressing 🔇/RTN during the procedure will return to the previous mode.*
- *If no operation is performed for 60 seconds in the SETUP mode, the setting mode is canceled.*
- *This function is inoperable when DEFEAT is set to ON (page 13).*
- *Press and hold 🔍/ESC for at least 2 seconds, the setting mode is canceled.*

Adjusting and Storing the Parametric Equalizer Curve

You can modify the Equalizer settings to create a response curve more appealing to your personal taste. To adjust the Parametric Equalizer Curve, set the EQ mode to Parametric EQ. For details, refer to "Setting EQ mode" (page 14).

1 Press A.SEL to recall the DSP adjust mode.

Media Xpander ↔ Crossover ↔ T.Correction ↔ Parametric EQ/Graphic EQ ↔ Media Xpander

2 Turn the Rotary encoder to select Parametric EQ mode, and then press ▶/II /ENT.

3 Press BAND to select the band to be adjusted.

Band1 → Band2 → Band3 → Band4 → Band5 → Band1

4 Press ◀ or ▶ to select frequency bands.
Adjustable frequency bands:
20 Hz to 20 kHz (in 1/3 octave steps)

Band-1: 20 Hz~80 Hz (63 Hz)
Band-2: 50 Hz~200 Hz (150 Hz)
Band-3: 125 Hz~3.2 kHz (400 Hz)
Band-4: 315 Hz~8 kHz (1 kHz)
Band-5: 800 Hz~20 kHz (2.5 kHz)

5 Turn the Rotary encoder to adjust the level.
Adjustable level: -6 to +6 dB

6 Press SOURCE/⏻ to set the bandwidth (Q).
Adjustable bandwidth: 1, 1.5, 3

7 To adjust another band, repeat steps 3 to 6 and adjust all bands.

8 When the setting has been completed, select any one of the preset buttons (1 through 6), press and hold the desired preset buttons for at least 2 seconds.

9 Turn the Rotary encoder to select PROTECT YES/NO, and then press ▶/II /ENT to store the adjusted contents.

PROTECT YES (Initial setting) ↔ PROTECT NO

- *If YES is selected, the adjusted contents are protected and stored into the preset buttons. When you want to store the parameter into a protected preset button, "REPLACE NO/YES" can be selected.*
- *If NO is selected, the preset is stored.*

10 After setting, press and hold 🔍/ESC for at least 2 seconds to return to normal mode.

- *The frequencies of adjacent bands cannot be adjusted within 4 steps.*
- *This function is inoperable when DEFEAT is set to ON (page 13).*
- *While adjusting the Parametric EQ, you should consider the frequency response of the connected speakers.*
- *The stored contents are not deleted even when resetting the unit or disconnecting the battery.*
- *The stored contents can be recalled by performing operation in "Recalling the Stored Equalizer Curve" (page 15).*
- *Pressing 🔇/RTN when Parametric EQ is adjusted will return to the previous item.*
- *If MultEQ is turned on, the A.SEL button is ineffective. For details, refer to "Turning MultEQ on/off" (page 13).*
- *If no operation is performed for 60 seconds, the unit will return to the normal mode.*

Adjusting and Storing the Graphic Equalizer Curve

You can modify the equalizer settings to create a response curve more appealing to your personal taste. To adjust the graphic equalizer curve, set the EQ mode to Graphic EQ. For details, refer to "Setting EQ mode" (page 14).

1 Press A.SEL to recall the DSP adjust mode.

Media Xpander ↔ Crossover ↔ T.Correction ↔ Parametric EQ/Graphic EQ ↔ Media Xpander

2 Turn the Rotary encoder to select Graphic EQ mode, and then press ▶/II /ENT.

3 Press BAND to select the band to be adjusted.

Band1 → Band2 → Band3 → Band4 → Band5 → Band6 → Band7 → Band1

Band-1 (63 Hz) / Band-2 (150 Hz) / Band-3 (400 Hz) / Band-4 (1 kHz) / Band-5 (2.5 kHz) / Band-6 (6.3 kHz) / Band-7 (17.5 kHz)

4 **Turn the Rotary encoder to adjust the level.**
Adjustable output level: -6 to +6 dB

5 **To adjust another band, repeat steps 3 and 4, and then adjust all bands.**

6 **When the setting has been completed, select any one of the preset buttons (1 through 6), press and hold the desired preset buttons for at least 2 seconds to store the adjusted contents.**

7 **Turn the Rotary encoder to select PROTECT YES/NO, and then press ▶/II /ENT to store the adjusted contents.**

PROTECT YES ↔ PROTECT NO
(Initial setting)

- *If YES is selected, the adjusted contents are protected and stored into the preset buttons. When you want to store the parameter into a protected preset button, "REPLACE NO/YES" can be selected.*
- *If NO is selected, the preset is stored.*

8 **After setting, press and hold 🔍/ESC for at least 2 seconds to return to normal mode.**

- *This function is inoperable when DEFEAT is set to ON (page 13).*
- *The stored contents can be recalled by performing operation in "Recalling the Stored Equalizer Curve" (page 15).*
- *Pressing 🔇/RTN when Graphic EQ is adjusted will return to the previous item.*
- *If MultEQ is turned on, the A.SEL button is ineffective. For details, refer to "Turning MultEQ on/off" (page 13).*
- *If no operation is performed for 60 seconds, the unit will return to the normal mode.*

Recalling the Stored Equalizer Curve

1 **Press A.SEL to recall the DSP adjust mode.**
Media Xpander ↔ Crossover ↔ T.Correction ↔
Parametric EQ/Graphic EQ ↔ Media Xpander

2 **Turn the Rotary encoder to select the desired equalizer characteristic, and then press ▶/II /ENT.**

3 **Press any one of the preset buttons (1 through 6) that has your desired equalizer characteristic in memory.**

4 **Press the preset buttons again to return to the DSP adjust mode.**

5 **Press and hold 🔍/ESC for at least 2 seconds to return to normal mode.**

- *This function is inoperable when DEFEAT is set to ON (page 13).*
- *You can recall the adjusted equalizer curve from "Equalizer Presets" (page 13).*
- *Pressing 🔇/RTN during the procedure will return to the previous mode.*
- *If no operation is performed for 60 seconds, the unit will return to the normal mode.*

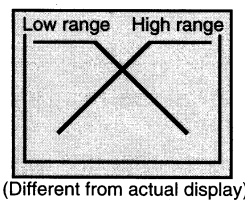
About the Crossover

Crossover (X-OVER):

This unit is equipped with an active crossover. The crossover limits the frequencies delivered to the outputs. Each channel is controlled independently. Thus, each speaker pair can be driven by the frequencies for which they have been optimally designed.
The crossover adjusts the HPF (high pass filter) or LPF (low pass filter) of each band, and also the slope (how fast the filter rolls off the highs or lows).
Adjustments should be made according to the reproduction characteristics of the speakers. Depending on the speakers, a passive network may not be necessary. If you are unsure about this point, please consult your authorized Alpine dealer.

4.2ch (F/R/Sub-W) mode

	Cut-off frequency (1/3 octave steps)		Slope		Level
	HPF	LPF	HPF	LPF	
Low range speaker	----	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/ oct.	0 to -12 dB
Rear high range speaker	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	----	0 to -12 dB
Front high range speaker	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	----	0 to -12 dB

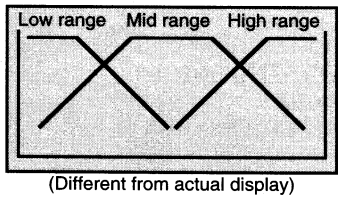


(Different from actual display)

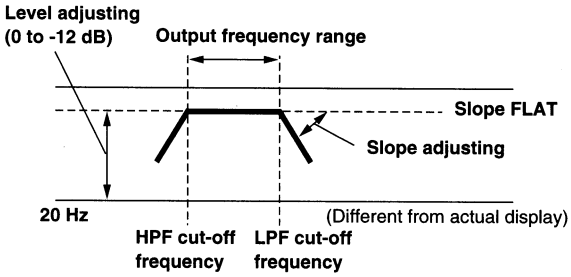
2.2ch (3WAY) mode

	Cut-off frequency (1/3 octave steps)		Slope		Level
	HPF	LPF	HPF	LPF	
Low range speaker	----	20 Hz - 200 Hz	----	FLAT, 6, 12, 18, 24 dB/oct.	0 to -12 dB
Mid range speaker	20 Hz - 200 Hz	20 Hz - 20 kHz	FLAT, 6, 12, 18, 24 dB/oct.	FLAT, 6, 12, 18, 24 dB/oct.	0 to -12 dB
High range speaker	1 kHz - 20 kHz, (20 Hz ~ 20 kHz)*	----	FLAT* 6, 12, 18, 24 dB/oct.	----	0 to -12 dB

* *Only when selecting User's in "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 24).*



(Different from actual display)



- *HPF (high pass filter): Cuts the lower frequencies and allows the higher frequencies to pass.*
- *LPF (low pass filter): Cuts the higher frequencies and allows the lower frequencies to pass.*
- *Slope: The level change (in dB) for a frequency change of one octave.*
- *The higher the slope value, the steeper the slope becomes.*
- *Adjust the slope to FLAT to bypass the HP or LP filters.*
- *Do not use a tweeter without the HPF on or set to a low frequency, as it may cause damage to the speaker due to the low frequency content.*
- *You cannot adjust the crossover frequency higher than the HPF or lower than the LPF.*
- *Adjustment should be made according to the recommended crossover frequency of the connected speakers. Determine the recommended crossover frequency of the speakers. Adjusting to a frequency range outside that recommended may cause damage to the speakers.*
  For the recommended crossover frequencies of Alpine speakers, refer to the respective Owner's Manual.
  We are not responsible for damage or malfunction of speakers caused by using the crossover outside the recommended value.

Adjusting and Storing the Crossover Settings

Before performing the following procedures, refer to "About the Crossover" (page 15).

1 Press A.SEL to recall the DSP adjust mode.

Media Xpander ↔ Crossover ↔ T.Correction ↔ Parametric EQ/Graphic EQ ↔ Media Xpander

2 Turn the Rotary encoder to select the Crossover mode, and then press ▶/II /ENT.

2.2ch (3WAY) System

3 Press BAND to select the band to be adjusted.

2.2ch (3WAY) System / L=R

Setting items:
LOW / MID-L / MID-H / HIGH

2.2ch (3WAY) System / L/R

Setting items:
LOW-L / LOW-R / MID-L-L / MID-L-R / MID-H-L / MID-H-R / HIGH-L / HIGH-R

4 Press ◀ or ▶ to select the desired cut-off frequency (Crossover Point).

2.2ch (3WAY) System

Setting Items:

LOW / MID-L	20 Hz~200 Hz
MID-H	20 Hz~20 kHz
HIGH	(1 kHz~20 kHz)*1/(20 Hz~20 kHz)*2

*1 *When Maker's is selected, refer to "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 24).*
*2 *When User's is selected, refer to "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 24).*

5 Press SOURCE/⏻ to adjust the slope.
Adjustable slope: FLAT*, 6 dB/oct., 12 dB/oct., 18 dB/oct., 24 dB/oct.

* *FLAT can be set for the HIGH slope only when User's is selected in "Setting the Response Slope for the High Range Speaker (TW Setup)" (page 24). Depending on the response characteristics of the speaker, care should be taken when setting the response slope to FLAT, as speaker damage may result. With this unit, a message is displayed when the response slope for the high range speaker is set to FLAT.*

6 Turn the Rotary encoder to adjust the output level.
Adjustable output level: -12 to 0 dB.

7 Repeat steps 3 to 6 to make adjustment to the other bands.

8 When the setting is complete, store into any one of the preset buttons (1 through 6) by pressing and holding the desired button for at least 2 seconds.

9 Turn the Rotary encoder to select PROTECT YES/NO, and then press ▶/II /ENT to store the adjusted contents.

PROTECT YES (Initial setting) ↔ PROTECT NO

- *If YES is selected, the adjusted contents are protected and stored into the preset buttons. When you want to store the parameter into a protected preset button, "REPLACE NO/YES" can be selected.*
- *If NO is selected, the preset is stored.*

10 After setting, press and hold 🔍/ESC for at least 2 seconds to return to normal mode.

- *Pressing 🔇/RTN during the procedure will return to the previous mode.*
- *If no operation is performed for 60 seconds, the unit will return to the normal mode.*

4.2ch (F/R/Sub-W) System

3 Press BAND to select the band to be adjusted.

4.2ch (F/R/Sub-W) System / L=R

setting items:
LOW (SUB-W) / MID (REAR) / HIGH (FRONT)

4.2ch (F/R/Sub-W) System / L/R

setting items:
LOW (SUB-W)-L / LOW (SUB-W)-R / MID (REAR)-L / MID (REAR)-R / HIGH (FRONT)-L / HIGH (FRONT)-R

4 Press ◀ or ▶ to select the desired cut-off frequency (Crossover Point).
Adjustable frequency bands:

4.2ch (F/R/Sub-W) System

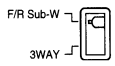
Setting items:
20 Hz~200 Hz

5 Press SOURCE/⏻ to adjust the slope.
Adjustable slope: FLAT, 6 dB/oct., 12 dB/oct., 18 dB/oct., 24 dB/oct.

6 **Turn the Rotary encoder to adjust the output level.**
Adjustable output level: -12 to 0 dB.

7 **Repeat steps 3 to 6 to make adjustment to the other bands.**

- *While adjusting the X-over, you should consider the frequency response of the connected speakers.*
- *The stored contents are not deleted even when resetting the unit or disconnecting the battery.*
- *The stored contents can be recalled by performing operation in "Recalling the Stored Crossover Settings" (page 17).*
- *Pressing /RTN when X-over is adjusted will return to the previous item.*
- *If MultEQ is turned on, the A.SEL button is ineffective. For details, refer to "Turning MultEQ on/off" (page 13).*
- *About the 4.2ch(F/R/Sub-W)/2.2ch(3WAY) system*
  You can switch to 4.2ch(F/R/Sub-W)/2.2ch(3WAY) system mode with the 4.2ch(F/R/Sub-W)/2.2ch(3WAY) switch on the bottom side of the unit (pages 40 to 42).



When setting to "3WAY":
The unit can be operated in a 2.2ch system.
When setting to "F/R/Sub-W":
The unit can be operated in a 4.2ch system.

Recalling the Stored Crossover Settings

1 **Press A.SEL to recall the DSP adjust mode.**

Media Xpander ↔ Crossover ↔ T.Correction ↔ Parametric EQ/Graphic EQ ↔ Media Xpander

2 **Turn the Rotary encoder to select the Crossover mode, and then press ▶/II /ENT.**

3 **Press any one of the preset buttons (1 through 6) that has your desired characteristic in memory.**

4 **Press the preset buttons again to return to the DSP adjust mode.**

5 **Press and hold 🔍/ESC for at least 2 seconds to return to normal mode.**

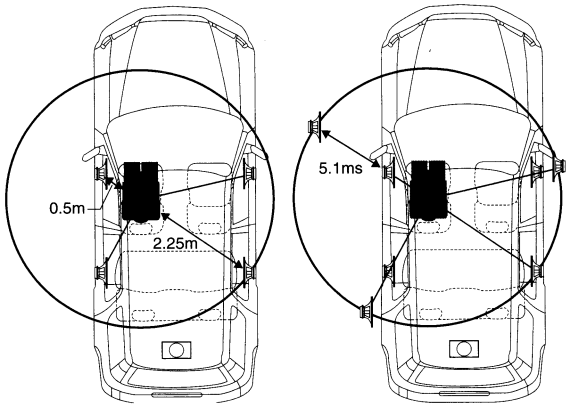
- *Pressing /RTN during the procedure will return to the previous mode.*

About Time Correction

The distance between the listener and the speakers in a car vary widely due to the complex speaker placement. This difference in the distances from the speakers to the listener creates a shift in the sounds image and frequency characteristics. This is caused by the time delay between the sound reaching the listener's right versus the left ear.
To correct this, this unit is able to delay the audio signal to the speakers closest to the listener. This effectively creates a perception of increased distance for those speakers. The listener can be placed at an equal distance between the left and right speakers for optimum staging.
The adjustment will be made for each speaker in 3.4cm steps.

Example 1. Listening Position: Front Left Seat

Adjust the time correction level of the front left speaker to a high value and the rear right to zero or a low value.



The sound is not balanced because the distance between the listening position and the various speakers is different.
The difference in distance between the front left speaker and the rear right speaker is 1.75 m (68-7/8").
Here we calculate the time correction value for the front left speaker in the diagram on the above.

Conditions:
Farthest Speaker – listening position : 2.25 m (88-9/16")
Front left speaker – listening position : 0.5 m (19-11/16")
Calculation: L = 2.25 m – 0.5 m = 1.75 m (68-7/8")
Time correction = 1.75 ÷ 343*[1] × 1000 = 5.1 (ms)

*[1] *Speed of sound: 343 m/s (765 mph) at 20°C*

In other words, giving the front left speaker a time correction value of 5.1 ms makes it seem as if its distance from the listener is the same as the distance to the farthest speaker.

Time correction eliminates the differences in the time required for the sound to reach the listening position.
The time of the front left speaker is corrected by 5.1 ms so that its sound reaches the listening position at the same time as the sound of other speakers.

Example 2. Listening Position: All Seats

Adjust the time correction level of each speaker to almost the same level.

1 **Sit in the listening position (driver's seat, etc.) and measure the distance (in meters) between your head and the various speakers.**

2 **Calculate the difference between the distance to the farthest speaker and the other speakers.**

L = (distance to farthest speaker) – (distance to other speakers)

3 **Divide the distances calculated for the speakers by the speed of sound (343 m/s (765 mph) at 20°C).**
These values are the time correction values for the different speakers.

Time Difference Table

Delay Number	Distance (cm)	Distance (inch)	Delay Number	Distance (cm)	Distance (inch)
0	0.0	0.0	51	173.4	68.3
1	3.4	1.3	52	176.8	69.7
2	6.8	2.7	53	180.2	71.0
3	10.2	4.0	54	183.6	72.4
4	13.6	5.4	55	187.0	73.7
5	17.0	6.7	56	190.4	75.0
6	20.4	8.0	57	193.8	76.4
7	23.8	9.4	58	197.2	77.7
8	27.2	10.7	59	200.6	79.1
9	30.6	12.1	60	204.0	80.4
10	34.0	13.4	61	207.4	81.7
11	37.4	14.7	62	210.8	83.1
12	40.8	16.1	63	214.2	84.4
13	44.2	17.4	64	217.6	85.8
14	47.6	18.8	65	221.0	87.1
15	51.0	20.1	66	224.4	88.4
16	54.4	21.4	67	227.8	89.8
17	57.8	22.8	68	231.2	91.1
18	61.2	24.1	69	234.6	92.5
19	64.6	25.5	70	238.0	93.8
20	68.0	26.8	71	241.4	95.1
21	71.4	28.1	72	244.8	96.5
22	74.8	29.5	73	248.2	97.8
23	78.2	30.8	74	251.6	99.2
24	81.6	32.2	75	255.0	100.5
25	85.0	33.5	76	258.4	101.8
26	88.4	34.8	77	261.8	103.2
27	91.8	36.2	78	265.2	104.5
28	95.2	37.5	79	268.6	105.9
29	98.6	38.9	80	272.0	107.2
30	102.0	40.2	81	275.4	108.5
31	105.4	41.5	82	278.8	109.9
32	108.8	42.9	83	282.2	111.2
33	112.2	44.2	84	285.6	112.6
34	115.6	45.6	85	289.0	113.9
35	119.0	46.9	86	292.4	115.2
36	122.4	48.2	87	295.8	116.6
37	125.8	49.6	88	299.2	117.9
38	129.2	50.9	89	302.6	119.3
39	132.6	52.3	90	306.0	120.6
40	136.0	53.6	91	309.4	121.9
41	139.4	54.9	92	312.8	123.3
42	142.8	56.3	93	316.2	124.6
43	146.2	57.6	94	319.6	126.0
44	149.6	59.0	95	323.0	127.3
45	153.0	60.3	96	326.4	128.6
46	156.4	61.6	97	329.8	130.0
47	159.8	63.0	98	333.2	131.3
48	163.2	64.3	99	336.6	132.7
49	166.6	65.7			
50	170.0	67.0			

Setting the Time Correction Unit

You can change the unit, (cm or inch) of time correction.

1 **Press and hold FUNC./SETUP for at least 2 seconds to setup the Selection mode.**

2 **Turn the Rotary encoder to select AUDIO mode, and then press ▶/II /ENT.**

Bluetooth ↔ GENERAL ↔ AUDIO ↔ DISPLAY ↔ TUNER* ↔ Bluetooth

* *Only when HD Radio/SAT Radio is connected.*

3 **Turn the Rotary encoder to select T.CORR Parameter mode, and then press ▶/II /ENT.**

4 **Turn the Rotary encoder to select the desired items, and then press ▶/II /ENT.**

T.CORR Parameter<cm> ↔ T.CORR Parameter<inch>
(Initial setting)

5 **After setting, press and hold FUNC./SETUP for at least 2 seconds to return to normal mode.**

- *Pressing ⇇/RTN during the procedure will return to the previous mode.*
- *If no operation is performed for 60 seconds in the SETUP mode, the setting mode is canceled.*
- *Press and hold 🔍/ESC for at least 2 seconds, the setting mode is canceled.*

Adjusting and Storing the Time Correction

Before performing the following procedures, refer to "About Time Correction" (page 17).

1 **Press A.SEL to recall the DSP adjust mode.**

Media Xpander ↔ Crossover ↔ T.Correction ↔ Parametric EQ/Graphic EQ ↔ Media Xpander

2 **Turn the Rotary encoder to select the T.Correction mode, and then press ▶/II /ENT.**

3 **Press BAND to select a speaker to be adjusted.**

2.2ch (3WAY) System

L-F (Initial setting) → R-F → L-R → R-R →
(Mid-L) (Mid-R) (High-L) (High-R)
L-SW → R-SW → L-F
(Mid-L)

4.2ch (F/R/Sub-W) System

L-F (Initial setting) → R-F → L-R → R-R →
(Front-L) (Front-R) (Rear-L) (Rear-R)
L-SW → R-SW → L-F
(Front-L)

4 **Turn the Rotary encoder to adjust the distance (0.0 to 336.6cm).**

5 **Repeat steps 3 and 4 to set another speaker.**

6 **When the setting has been completed, select any one of the preset buttons (1 through 6), press and hold the desired preset buttons for at least 2 seconds.**

7 **Turn the Rotary encoder to select PROTECT YES/NO, and then press ▶/II /ENT to store the adjusted contents.**

PROTECT YES ↔ PROTECT NO
(Initial setting)

- *If YES is selected, the adjusted contents are protected and stored into the preset buttons. When you want to store the parameter into a protected preset button, "REPLACE NO/YES" can be selected.*
- *If NO is selected, the preset is stored.*

8 **After setting, press and hold 🔍/ESC for at least 2 seconds to return to normal mode.**

- *The stored contents are not deleted even when resetting the unit or disconnecting the battery.*
- *The stored contents can be recalled by performing operation in "Recalling the Stored Time Correction Settings" (page 19).*
- *Pressing 🔇/RTN when Time Correction is adjusted will return to the previous item.*
- *If MultEQ is turned on, the A.SEL button is ineffective. For details, refer to "Turning MultEQ on/off" (page 13).*
- *If no operation is performed for 60 seconds, the unit will return to the normal mode.*

Recalling the Stored Time Correction Settings

1 **Press A.SEL to recall the DSP adjust mode.**

Media Xpander ↔ Crossover ↔ T.Correction ↔ Parametric EQ/Graphic EQ ↔ Media Xpander

2 **Turn the Rotary encoder to select the T.Correction mode, and then press ▶/II /ENT.**

3 **Press any one of the preset buttons (1 through 6) that has your desired characteristic in memory.**

4 **Press the preset buttons again to return to the DSP adjust mode.**

5 **Press and hold 🔍/ESC for at least 2 seconds to return to normal mode.**

- *Pressing 🔇/RTN during the procedure will return to the previous mode.*

Setting the MX Mode

MX (Media Xpander) makes vocals or instruments sound distinct regardless of the music source. The FM radio, CD, and iPod, will be able to reproduce the music clearly even in cars with a lot of road noise.

1 **Press SOURCE/⏻ to select the source to which you want to apply Media Xpander.**

2 **Press A.SEL to recall the DSP adjust mode.**

Media Xpander ↔ Crossover ↔ T.Correction ↔ Parametric EQ/Graphic EQ ↔ Media Xpander

3 **Turn the Rotary encoder to select the Media Xpander mode, and then press ▶/II /ENT.**

4 **Turn the Rotary encoder to select the desired Media Xpander level.**

FM (MX level 1 to 3):
The medium to high frequencies become clearer, and produces well balanced sound at all frequencies.

CD (MX level 1 to 3):
CD mode processes a large amount of data during playback. MX takes advantage of this large data quantity to reproduce a more clear, clean output.

CMPM/SAT (MX level 1 to 3):
This corrects information that was lost at the time of compression. This reproduces a well-balanced sound close to the original.

DVD (Video CD)
(MOVIE MX level 1 to 2):
The dialogue portion of a video is reproduced more clearly.

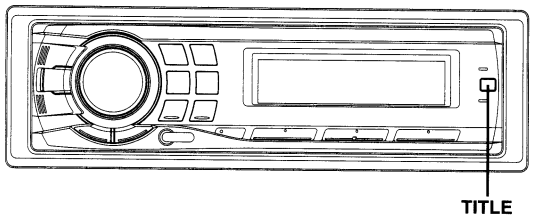
(DVD MUSIC):
A DVD or Video CD contains a large quantity of data such as music clip. MX uses this data to reproduce the sound accurately.

AUX (MX level 1):
Choose the MX mode (CMPM, MOVIE, or MUSIC) that corresponds to the media connected.
If two external devices are connected, a different MX mode for each media can be selected.

5 **After setting, press and hold 🔍/ESC for at least 2 seconds to return to normal mode.**

- *To cancel MX mode for all music sources, set MX to OFF.*
- *Each music source, such as FM radio, CD, and MP3/WMA/AAC can have its own MX setting.*
- *On disks with both MP3/WMA/AAC and CD-DA, when the source changes from "MP3/WMA/AAC to CD-DA" or "CD-DA to MP3/WMA/AAC", MX-mode switching may delay playback slightly.*
- *Setting to Non Effect sets MX mode of each music source to OFF.*
- *This function is inoperable when DEFEAT is set to ON.*
- *There is no MX mode for AM radio.*
- *If an audio processor with the MX function (PXA-H701, etc.) is connected, its own MX processing is applied to the music source. Since the processor MX settings may not match the head unit, the audio processor needs to be adjusted. For details, refer to the Owner's Manual of the audio processor.*
- *"CMPM" is applied for MP3/WMA/AAC and iPod.*
- *"SAT" is applied for XM radio and SIRIUS radio.*
- *If no operation is performed in 60 seconds, the unit will return to the normal mode.*

Other Functions



Displaying the Text

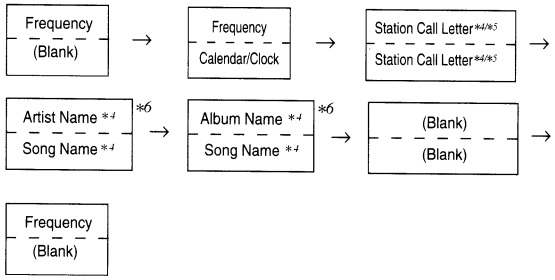
Text information, such as the disc name and the track name, will be displayed if playing a CD text compatible disc. It is also possible to display the folder name, the file name and the tag, etc., while playing MP3/WMA/AAC files.

Press **TITLE**.

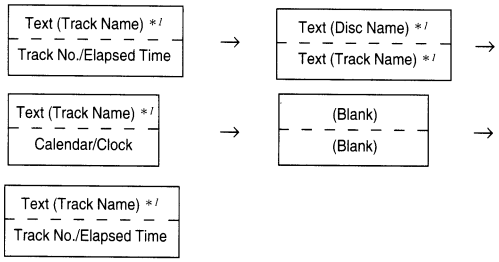
The display will change every time the button is pressed.

- *If you want to change the display when the Text Scroll is set to Manual, press **TITLE** while the text is scrolling. If the scroll has been completed, press **TITLE** to scroll the text again.*

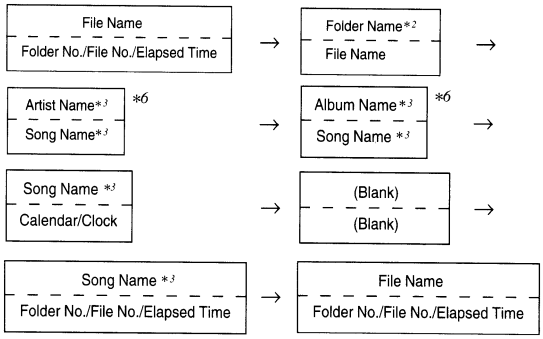
The display in Radio mode:



The display in CD mode:



The display in MP3/WMA/AAC mode:



**1 Displayed during playback of a disc with CD Text.*
**2 The root folder is displayed as blank.*
**3 ID3 tag/WMA tag*
If an MP3/WMA/AAC file contains ID3 tag/WMA tag information, the ID3 tag/WMA tag information is displayed (e.g., song name, artist name, and album name). All other tag data is ignored.
**4 When an HD radio signal is received, text information such as "Radio Station," "Artist," etc., is displayed.*
**1~*4 If there is no text information, nothing will be displayed.*
**5 RADIO STATION NAME can be switched between "Long" and "Short" in "HD Radio Station Call Setting" (page 25). Displayed in 1 line when "Short" is set, displayed in 2 lines when "Long" is set.*
6 When the Scroll Setting (page 24) is set to "Auto", the display cannot be switched by pressing **TITLE. The display contents switch alternately.*

About the indication display

When displaying Text, the following indicators are lit according to the mode.

Indicator/ Mode	CD Mode	MP3/WMA/ AAC Mode	SAT RADIO/HD RADIO Mode	iPod Mode
	—	Folder Name being displayed	—	—
	—	Song Name being displayed	Song Name being displayed	Song Name being displayed
	—	Artist Name being displayed	Artist Name being displayed	Artist Name being displayed
	—	Album Name being displayed	Album Name being displayed (HD Radio only)	Album Name being displayed
	—	File Name being displayed	—	—
	Text (Disc Name) being displayed	—	—	—
	Text (Track Name) being displayed	—	—	—
INFO.	—	—	Auxiliary Data Field being displayed (XM Radio only)	—
CH.	—	—	Channel NO./ Channel Name being displayed (XM/ SIRIUS only)	—
CAT.	—	—	Category Name being displayed (XM/ SIRIUS only)	—
	—	—	ID NO. (XM Radio only)	—
COMP.	—	—	Composer Name being displayed (SIRIUS Radio only)	—
S.C.L.	—	—	Station Call Letter being displayed (HD Radio only)	—
(A)	—	—	Alert being displayed (SIRIUS Radio only) SPS being displayed (HD Radio only)	—

About "Text"

Text:

Text compatible CDs contain text information such as the disc name and track name. Such text information is referred to as "text."

- *Some characters may not be displayed correctly with this device, depending on the character type.*
- *The CD changer must also be CD Text compatible for the Text information to be displayed.*
- *If there is no TEXT information, the display is blank.*
- *The text or tag information may not be correctly displayed, depending on the contents.*

Displaying Time

Press TITLE repeatedly until the time is displayed.

Each press changes the display.
For details, see "Displaying the Text" (page 20).

- *Selecting any tuner or CD function while in the clock priority mode will interrupt the time display momentarily. The function selected will be displayed for about 5 seconds before the time returns to the display.*

Blackout Mode On and Off

When Blackout mode is turned on (except Radio Mode), all display indications on this unit will turn off to reduce power consumption. This additional power enhances the sound quality.

Press and hold TITLE for at least 2 seconds to activate the blackout mode.

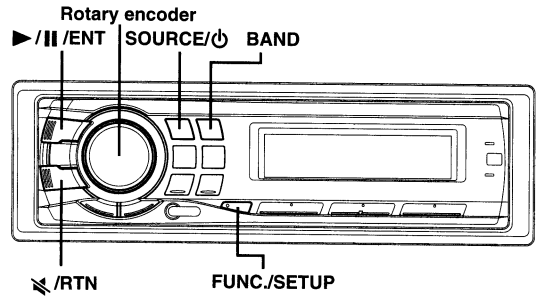
All display indications on this unit will turn off.
The "B.OUT" indicator lights up.

- *If any button on the unit is pressed during the blackout mode, the function will be displayed for 5 seconds to show the operation before returning to Blackout mode.*

To cancel Blackout mode, press and hold TITLE for at least 2 seconds.

SETUP

You can flexibly customize the unit to suit your own preferences and usage. From the SETUP menu, Audio Setting, Display Setting, etc., can be modified.



Use steps 1 to 5 to select one of the SETUP modes to modify. See the applicable section below for details about the selected SETUP item.

1 Press and hold FUNC./SETUP for at least 2 seconds to activate the SETUP selection mode.

2 Turn the Rotary encoder to select the desired item, and then press ►/II /ENT.

Bluetooth*1 ↔ GENERAL ↔ AUDIO ↔ DISPLAY ↔ TUNER* ↔ Bluetooth*1
(e.g. Select AUDIO)

* *Only when HD Radio/SAT Radio is connected.*

3 Turn the Rotary encoder to select a setting item, and then press ►/II /ENT.
(e.g. Select Subwoofer)

Bluetooth*1
Bluetooth IN

GENERAL:
Birthday Set ↔ Clock Mode ↔ Clock ↔ Clock Adjust*2 ↔ Play Mode ↔ Beep ↔ INT Mute*3 ↔ AUX IN ↔ AUX Name*4 ↔ Changer Name ↔ Digital AUX ↔ Power IC ↔ Language Set ↔ Demo ↔ Birthday Set

AUDIO: *11
Subwoofer ↔ SUBW. System*5 ↔ Factory's EQ*6 ↔ T.CORR Parameter*7 ↔ Filter Type ↔ SUBW. Phase ↔ SUBW. Channel ↔ TW Setup*8 ↔ EQ Mode*9 ↔ Subwoofer

DISPLAY:
Illumination ↔ Dimmer ↔ Scroll Type ↔ Text Scroll ↔ Font Select ↔ BGV Select ↔ Calendar ↔ Opening MSG ↔ Illumination

TUNER*10:
Only when XM is connected.
XM ADF
Only when SIRIUS is connected.
Game Alert
Only when HD Radio is connected.
Digital Seek ↔ Station Call ↔ Digital Seek

*1 *Displayed only when INT Mute is OFF.*
*2 *Refer to "Setting the Time and Calendar" (page 7).*
*3 *Displayed only when Bluetooth IN is OFF.*
*4 *Displayed only when AUX IN is ON.*
*5 *Displayed only when Subwoofer is ON, and no external audio processor is connected.*
*6 *Refer to "Equalizer Presets" (page 13).*
*7 *Refer to "Setting the Time Correction Unit" (page 18).*
*8 *Displayed only when 2.2ch (3WAY) is set.*
*9 *Refer to "Setting EQ mode" (page 14).*
*10 *When SAT/HD Radio is connected.*
For the SAT Radio Setting, refer to "SAT Radio Receiver (Optional)" (page 25).
*11 *These items cannot be adjusted when MultEQ (page 13) is set to ON.*

4 Turn the Rotary encoder to change the setting, and then press ►/II /ENT.
(e.g. Select Subwoofer ON or Subwoofer OFF.)

5 Press and hold FUNC./SETUP for at least 2 seconds to return to normal mode.

- *Pressing /RTN returns to the previous SETUP mode.*
- *If no operation is performed for 60 seconds, SETUP is canceled.*

Bluetooth Setting

Select Bluetooth from the setup main menu in step 2 above.
If an optional Bluetooth Box is connected, you can place a hands-free call by a Bluetooth- equipped mobile phone.
Make this setting when the Bluetooth Box is connected and the Bluetooth function is used. For details, refer to the Owner's Manual of the optional Bluetooth Box.

Setting the Bluetooth IN Connection

Bluetooth IN ADAPTER / Bluetooth IN OFF (Initial Setting)

Set ADAPTER when the Bluetooth Box is connected.

General Setting

GENERAL is selected on the setup main menu in step 2.

Birthday Opening Message Setting (Birthday Set)

mm/dd

While Opening MSG is set to ON (refer to "Opening Message ON/OFF Setting" on page 25), and then input your birthday details, a message can be displayed on that day. Turn the **Rotary encoder** to set "mm" (Month), then press **►/II /ENT**. Turn the **Rotary encoder** again to set "dd" (Date).

Setting the Clock Display (Clock Mode)

AM (Before noon) 12:00 (12-hour) (Initial setting) / 00:00 (24-hour)

You can select the clock display type, 12-hour or 24-hour, depending on your preference.

Turning the Clock Display ON/OFF (Clock)

Clock ON (Initial Setting) / Clock OFF

When ON is set, the time always appears in the lower left of the display.

Playing MP3/WMA/AAC Data (Play Mode)

CD-DA (Initial setting) / CDDA&MP3/WMA

This unit can play back CDs containing both CD and MP3/WMA/AAC data (created in Enhanced CD (CD Extra) format). However, in some situations, playback of an enhanced CD may be difficult. In this case, you can select playback of a single session only, containing the CD data. When a disc contains both CD and the MP3/WMA/AAC data, playback starts from the CD data portion of the disc.

CD-DA: Only the CD data in Session 1 can be played back.

CDDA&MP3/WMA: CD data, MP3/WMA/AAC files in mixed mode, and multi-session discs can be played back.

- *Perform this setting before inserting a disc. If a disc has already been inserted, remove it first. (If you use an MP3 changer, you have to change discs.)*

Sound (Beep) Guide Function

Beep ON (Initial setting) / Beep OFF

This function will give audible feedback with varying tones depending upon the button pressed.

Turning Mute Mode On/Off (INT Mute)

INT Mute ON / INT Mute OFF (Initial setting)

If a device having the interrupt feature is connected, audio will be automatically muted whenever the interrupt signal is received from the device.

Setting the AUX Mode (V-Link)

AUX IN ON / AUX IN OFF (Initial setting)

You can input TV/video sound by connecting an optional Ai-NET/RCA Interface cable (KCA-121B) or Versatile Link Terminal (KCA-410C) to this component.
You can change the AUX name display when AUX IN is set to ON.
Press **▶/II /ENT** when AUX IN is set to ON, and select AUX Name by turning the **Rotary encoder**, then press **▶/II /ENT**.
After that, turn the **Rotary encoder** to select the desired AUX name.
If the KCA-410C is connected, it is possible to select two AUX names.

- *Via KCA-410C, up to 2 external devices with RCA output can be connected. In this case, press **SOURCE/⏻** to select AUX mode and then press **BAND** to select your desired device.*

Changer Name Setting

Changer (Initial Setting) / USB / Portable

This setting is used when the head unit is connected to the USB Adapter for MP3 (KCA-620M). You can set the name to be displayed on the unit depending on the device to which the USB Adapter for MP3 (KCA-620M) is connected.

Setting the External Digital Input (Digital AUX)

Digital AUX ON / Digital AUX OFF (Initial setting)

When an ALPINE Ai-NET compatible digital audio processor (PXA-H701) and a DVD player (DVE-5207) not compatible with Ai-NET are connected, set Digital AUX to ON to enjoy 5.1-channel surround sound.

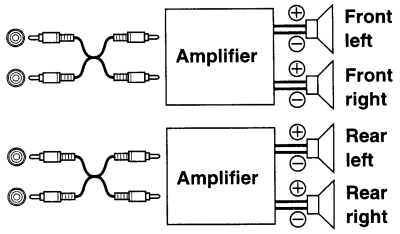
- *Press **SOURCE/⏻** , and select the D.AUX mode, and adjust the volume, etc.*
- *Depending on the connected audio processor, DVD player sound may continue to be output, even though the source is changed to another one. If this occurs, set the DVD player's power to OFF.*

Connecting to an External Amplifier

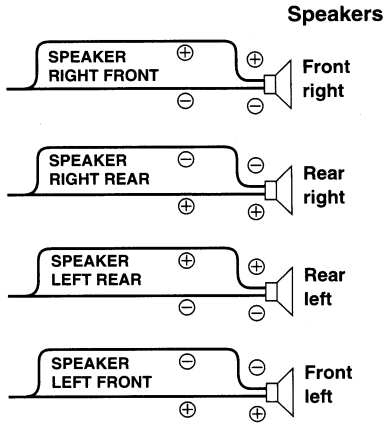
Power IC ON (Initial setting) / Power IC OFF

When an external amplifier is connected, sound quality can be improved by stopping the power supply of the built-in amplifier.

Power IC OFF : Use this mode when the line output of this unit is used to drive an external amplifier. In this setting, the head unit's internal amplifier is turned OFF and can not drive speakers.



Power IC ON : The speakers are driven by the built-in amplifier.



- *No sound is produced by the system when the power output is set to OFF.*

Setting the Language Font (Language Set)

Language 1 (Initial Setting) / Language 2

You can select between two types of language fonts.

Language 1 : Normal Font
Language 2 : European Font

Demonstration

Demo ON / Demo OFF (Initial setting)

This unit has a Demonstration feature for the display with sound.

- *To quit Demo mode, set to Demo OFF.*

Audio Setting

AUDIO is selected on the setup main menu in step 2.

Subwoofer On and Off

Subwoofer ON (Initial setting) / Subwoofer OFF

When the subwoofer is on, perform the steps below to adjust the subwoofer output level.

1 In the normal mode, press the **Rotary encoder** repeatedly to select the SUBWOOFER mode.

SUBWOOFER → BASS → TREBLE → BALANCE → FADER → DEFEAT → VOLUME → SUBWOOFER

2 Adjust the level by turning the **Rotary encoder**.

Setting the Subwoofer System

SUBW.System 1 (Initial setting) / SUBW.System 2

Select either SUBW.System 1 or SUBW.System 2 for the desired subwoofer effect.

SUBW.System 1 : Subwoofer level changes according the main volume setting.

SUBW.System 2 : Subwoofer level change is different from the main volume setting. For example, even at low volume settings, the subwoofer is still audible.

Setting the Filter type

L=R (Initial setting) / L/R

L=R: Left and right speakers are adjusted equally.

L/R: Left and right speakers are individually adjusted.

Setting the Subwoofer phase

SUBW. Phase 0° (Initial setting) / SUBW. Phase 180°

The subwoofer output phase is toggled SUBWOOFER NORMAL (0°) or SUBWOOFER REVERSE (180°). To adjust the level, turn the **Rotary encoder**.

Setting the Subwoofer Channel (SUBW. Channel)

SUBW. Channel Stereo (Initial setting) / Mono

You can set the subwoofer output to stereo or monaural. Make sure to set the correct output for your subwoofer type.

Stereo: Subwoofer stereo (L/R) output

Mono: Subwoofer monaural output

Setting the Response Slope for the High Range Speaker (TW Setup)

TW Maker's (Initial setting) / TW User's

Depending on the response characteristics of the speaker, care should be taken when setting the response slope of the high range speaker to FLAT in 2.2ch (3WAY) mode (see "Adjusting and Storing the Crossover Settings" on page 16), as speaker damage may result.

Maker's: As protection from possible speaker damage, FLAT cannot be set for the response slope of the high range speaker in 2.2ch (3WAY) mode.

User's: The FLAT setting is possible in 2.2ch (3WAY) mode.

Display Setting

DISPLAY is selected on the setup main menu in step 2.

Changing Lighting Color (Illumination)

Illumination TYPE 1(Initial setting) / TYPE 2 / TYPE 3 / TYPE 4 / TYPE 5

TYPE 1 ↔ TYPE 2 ↔ TYPE 3 ↔ TYPE 4 ↔ TYPE 5

You can change the lighting color of the following seven buttons. SOURCE/⏻, BAND , ◀ , ▶ , ⏮ , ⏭ and MultEQ.

TYPE 1: When the color of the seven buttons is blue, the color of the other is blue.

TYPE 2: When the color of the seven buttons is green, the color of the other is blue.

TYPE 3: When the color of the seven buttons is blue, the color of the other is red.

TYPE 4: When the color of the seven buttons is amber, the color of the other is red.

TYPE 5: When the color of the seven buttons is red, the color of the other is red.

Dimmer Control

Dimmer Auto (Initial setting) / Dimmer Manual

Set the Dimmer control to Auto to decrease the illumination brightness of the unit with the head lights of the vehicle ON. This mode is useful if you feel the unit's backlighting is too bright at night.

Scroll Type Setting

Scroll Type TYPE 1 / Scroll Type TYPE 2 (Initial setting)

Choose from two scrolling methods.
Select the type you prefer.

TYPE 1 : The characters scroll from right to left, one character at a time, until the entire title has scrolled.

TYPE 2 : Words are built up from left to right, a single character at a time. When the display is full, it is cleared and the subsequent words are displayed the same way until all words of the title have been shown.

Scroll Setting (Text Scroll)

Text Scroll Auto / Text Scroll Manual (Initial setting)

This CD player can scroll the disc and track names recorded on CD-TEXT discs, as well as text information of MP3/WMA/AAC files, folder names, tags, HD Radio and SAT Radio.

Auto : CD text information, folder and file names, HD and SAT Radio text are scrolled continuously. In addition, all tag information is automatically rotated in the display continuously, without pressing the Title button.

Manual : The above information is scrolled only when a disc is loaded, a channel or track is changed, etc.

- *In parts of the display, scrolling may not occur, or scroll content may differ.*

Switching the Character Font (Font Select)

Font Select TYPE 1 (Initial setting) / Font Select TYPE 2

Two types of font can be selected.
You can select the font type you like.

Switching the Animation Display Type (BGV Select)

BGV Select OFF (Initial setting) / BGV Select TYPE 1 / TYPE 2 / TYPE 3 / TYPE 4

You can select your favorite animation display for background from 4 types.

Setting of Calendar Display Pattern Switching (Calendar)

dd/mm/yyyy / yyyy/mm/dd / mm/dd/yyyy (Initial setting)

You can switch the calendar display pattern to be shown when the time is displayed.

yyyy :	shows the year
mm :	shows the month
dd :	shows the day

ex. dd/mm/yyyy → 25/12/2006

Opening Message ON/OFF Setting

Opening MSG ON / Opening MSG OFF (Initial setting)

This unit includes a special message feature with various patterns, which when enabled displays opening messages for certain occasions. For example, when you turn this unit on December 25th (according to the unit's date setting), a Christmas greeting is displayed if the Opening Message is set to ON.

Tuner Setting (Only when HD Radio is connected)

TUNER is selected on the setup main menu in step 2.

HD Radio Station Call Setting

Station Call Short (Initial setting) / Station Call Long

In the HD radio mode, the number of display characters for the HD radio station name can be selected.

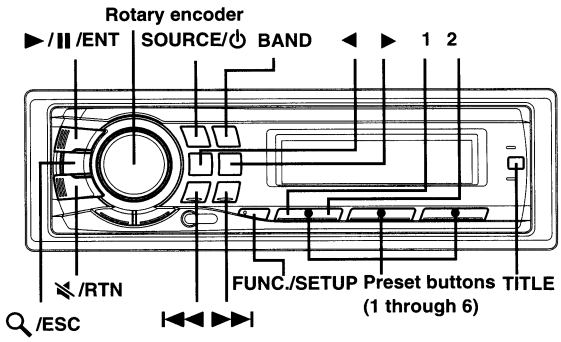
Short :	7 characters (FM) 4 characters (AM)
Long :	56 characters

Digital Seek ON/OFF Setting

Digital Seek ON / Digital Seek OFF (Initial Setting)

ON :	SEEK UP/DOWN is used only for Digital Radio Station.
OFF :	SEEK UP/DOWN is used for all Radio Stations.

SAT Radio Receiver (Optional)



SAT Receiver: XM or SIRIUS Receiver
When an optional XM or SIRIUS Receiver Box is connected via the Ai-NET bus, the following operations may be performed. However, the XM Receiver and SIRIUS Receiver cannot be connected at the same time.

SIRIUS Receiver: Verify the features of the connected SIRIUS Receiver Box. Not all SIRIUS Receivers have identical functions and some may not be performed on this unit. For details about functions, refer to the SIRIUS Receiver's Owner's Manual.

Receiving Channels with the SAT Radio Receiver (Optional)

About SAT Radio

Satellite Radio* is the next generation of audio entertainment, with over 100 digital audio channels. For a small monthly fee, subscribers can hear crystal-clear music, sports, news and talk, coast-to-coast via satellite. For more information, visit XM's website at www.xmradio.com, or SIRIUS' website at www.sirius.com.

To receive SAT Radio, the separately sold XMDirect™ or SIRIUS Satellite Radio Tuner and an appropriate Ai-NET Interface Adapter will be required. For details, consult you nearest Alpine dealer.

* *XM and its corresponding logos are trademarks of XM Satellite Radio Inc.*
* *SIRIUS and its corresponding logos are trademarks of SIRIUS Satellite Radio Inc.*

- *The SAT Receiver controls on this unit are operative only when a SAT Receiver is connected.*

1 Press SOURCE/⏻ to activate the SAT Radio mode.

2 Press BAND to select one of the three SAT Radio Preset Bands.

Each press changes the band:

XM mode:
XM 1 → XM 2 → XM 3 → XM 1

SIRIUS mode:
SIRIUS 1 → SIRIUS 2 → SIRIUS 3 → SIRIUS 1

3 Press ◄ or ► to select desired category.

4 Press ⏮ or ⏭ to select the desired channel.
Holding down ⏮ or ⏭ will change channels continuously.

- *When using the optional remote control (RUE-4190, etc.), an SAT Radio Channel can be directly called up with the numeric keypad of the remote control.*
  1 While in XM or SIRIUS Radio mode, enter the Channel number you want to call up with the numeric keypad on the remote control.
  2 Press ENTER on the remote control within 5 seconds to receive the Channel.
  If the channel number is 3 digits, the Channel is automatically received after the channel number has been input.

Checking the SAT Radio ID Number

A unique Radio ID number is required to subscribe to SAT Radio programming. Each third party XM or SIRIUS radio comes with this number.

This number is an 8 character (for XM Radio) or 12 character (for SIRIUS Radio) alphanumeric number. It is printed on a label found on the SAT Receiver.
It can also be displayed on the screen of this unit in the following way.

XM:

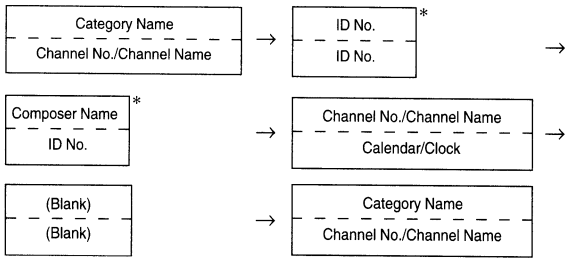
1 While receiving a SAT Radio band, press ⏮ or ⏭ to select channel "0" for XM.
The unit displays channel No. "0" for 2 seconds, then displays the ID number.
While displaying Radio ID as shown above, Demonstration (page 23) become nonfunctional.

2 To cancel the ID number display, select the channel other than "0".

SIRIUS:

1 While receiving a SAT Radio band, press ⏮ or ⏭ to select channel "255" for SIRIUS.

2 Press TITLE until the ID No. appears in the display.



3 To cancel the ID number display, set the channel to other than "255".

- *You cannot use "O", "S", "I", or "F" for the ID Number (XM radio Receiver only).*
- *You can check the ID number printed on a label on your third party, SAT Radio Receiver package.*

* *When the Scroll Setting (page 24) is set to "Auto", the display cannot be switched by pressing **TITLE**. The display contents switch alternately.*

Storing Channel Presets

1 Press BAND to select the desired band you want to store.

2 After tuning in the desired channel, press and hold, for at least 2 seconds, any one of the preset buttons (1 through 6) into which you wish to store the channel.
The selected station is stored.

3 Repeat the procedure to store up to 5 other channels onto the same band.

- *To use this procedure for other bands, simply select the band desired and repeat the procedure.*
- *A total of 18 channels can be stored in the preset memory (6 channels for each band; XM1, XM2 and XM3 or SIRIUS1, SIRIUS2 and SIRIUS3).*
- *If you store a channel in a preset memory which already has a station, the current channel will be cleared and replaced with the new one.*

Receiving Stored Channels

1 Press BAND to select the desired band.

2 Press the channel preset buttons that has your desired satellite channel in memory.

Storing the desired Sports Team (SIRIUS only)

Store a favorite team from one of the available leagues SIRIUS covers. Once stored, game times and scores for that team are announced using the interruption ALERT display while receiving other programming. To receive these announcements, refer to page 27.
This function becomes effective after performing the following two operations.

Storing while receiving a game broadcast

1 Select the channel broadcasting your favorite team's game.

2 Press FUNC./SETUP to activate the function mode.

3 Press 1(M) to activate the Memory mode.

4 Turn the Rotary encoder to select the desired team for the game being broadcast, and then press ▶/II /ENT.

5 Turn the Rotary encoder to select an interruption type, and then press ▶/II /ENT.

Alert Type Initial (Initial setting) ↔ Update

Initial:	The ALERT display interrupts when the game begins.
Update:	The ALERT display interrupts by game progress (change of score, game result, etc.).

6 Press FUNC./SETUP to cancel the function mode.

- *When you want to store but the memory area is filled, "MEMORY FULL" is displayed. If you want to replace the team after you have performed the procedure in step 4, turn the **Rotary encoder** to select "REPLACE YES," and then press ►/II /ENT.*

Game Alert Setup

1 Press and hold FUNC./SETUP for at least 2 seconds to enter the SETUP mode.

2 Turn the Rotary encoder to select a TUNER item, and then press ►/II /ENT.

3 Turn the Rotary encoder to select Game Alert, and then press ►/II /ENT.

4 Turn the Rotary encoder to select the desired league, and then press ►/II /ENT.

5 Turn the Rotary encoder to select a team you want to store, and then press ►/II /ENT.

6 Turn the Rotary encoder to select an interruption type, and then press ►/II /ENT.

Alert Type Initial (Initial setting) ↔ Update

Initial:	The ALERT display interrupts when the game begins.
Update:	The ALERT display interrupts by game progress (change of score, game result, etc.).

7 Press and hold FUNC./SETUP for at least 2 seconds to cancel the SETUP mode.

- *Pressing ↰/RTN returns to the previous SETUP mode.*
- *If no operation is performed for 60 seconds, SETUP is canceled.*
- *In this mode, a total of 4 teams can be stored in the preset memory (one team per league).*

Storing the desired Song / Artist (SIRIUS only)

A stored song title or artist name is announced whenever a matching title or artist is found on another channel. The interruption ALERT is displayed while listening to a program on another channel. For receiving interruption information, refer to "Recalling the stored information (SIRIUS only)" (page 27).

1 Press FUNC./SETUP to activate the function mode when a Song or the song of an Artist you want to store is being broadcast.

2 Press 1(M) to activate the Memory mode.

3 Turn the Rotary encoder to select the song title or artist name, and then press ►/II /ENT.

4 Press FUNC./SETUP to cancel the function mode.

- *When you want to store but the memory area is filled, "MEMORY FULL" is displayed. If you want to replace the Song title or Artist name after you have performed the procedure in step 3, turn the **Rotary encoder** to select "REPLACE YES," and then press ►/II /ENT.*
- *Press and hold 🔍/ESC for at least 2 seconds to cancel the Memory mode. Or, the Memory mode/function mode will be canceled if no operation is performed for 10 seconds.*

Recalling the stored information (SIRIUS only)

Whenever the stored sports team, song(s) or artist(s) are playing, an interruption ALERT appears in the display of the unit.

1 The interruption ALERT indicator is either on or blinking depending on the conditions listed below.

If more than 2 channels are found

2 Turn the Rotary encoder to select the desired information.

3 Press ►/II /ENT.

- *If no operation is performed for 10 seconds , the unit returns to normal mode.*
- *Only a single sports team, song or artist can be displayed as an interruption ALERT. For example, both song and artist cannot be displayed as an ALERT at the same time.*

Canceling the stored Alert Memory (SIRIUS only)

1 During usual reception, press FUNC./SETUP to turn the function on.

2 Press 2(D).
The Memory List appears after DELETE MODE has been displayed.

3 Turn the Rotary encoder to select a list you want to delete, and then press ►/II /ENT.

4 Turn the Rotary encoder to select DELETE YES, and then press ►/II /ENT.

DELETE NO ↔ YES
Select "NO" the unit will return to the Memory List display.

5 Press FUNC./SETUP to cancel the function mode.

- *If 🔍/ESC is pressed and held for at least 2 seconds, or no operation is performed for 10 seconds, the setting mode is canceled.*

Search Function

You can search for programs by Category, Channel, Artist or Song.

1 Press 🔍/ESC in the XM or SIRIUS mode.

2 Turn the Rotary encoder to select Search mode, and then press ►/II /ENT.

Category ↔ Channel ↔ Artist* ↔ Song*

* *SIRIUS Only*

Category Search mode:

3 Turn the Rotary encoder to select the desired Category, and then press ►/II /ENT.

4 Turn the Rotary encoder to select the desired Channel Name, and then press ►/II /ENT.

- *While in Category Search mode, press ✕/RTN to return to the selecting search mode.*
- *The Search mode is canceled if you press and hold Q/ESC for at least 2 seconds, or no operation is performed for 10 seconds in Category Search mode.*
- *If ALERT interruption occurs in the search mode, the search mode is canceled.*

Channel/Artist/Song Search mode:

3 Turn the Rotary encoder to select the desired Channel/Artist/Song Name, and then press ►/II /ENT.

- *While in Channel Search mode, press ◄ or ► to select another Category.*
- *While in Channel/Artist/Song Search mode, press ✕/RTN to return to the selecting search mode.*
- *The Search mode is canceled if you press and hold Q/ESC for at least 2 seconds, or no operation is performed for 10 seconds in Channel/Artist/Song Search mode.*
- *Channel search is possible only in the category (last mode).*
- *If ALERT interruption occurs in the search mode, the search mode is canceled.*

Quick Search Function

You can search for all channels in numerical order.

1 Press and hold Q/ESC for at least 2 seconds in XM or SIRIUS mode to activate Quick Search mode.

2 Turn the Rotary encoder to select the desired Channel within 10 seconds.
The selected Channel is received.

Receiving Weather or Traffic Information from SAT Radio

1 Select the SAT Radio Channel for your local traffic/ weather information.

2 Press and hold ►/II /ENT for at least 2 seconds in the SAT mode.
The received weather or traffic channel is stored.

3 Press and hold BAND for at least 2 seconds.
The stored Weather or Traffic channel will be recalled.

4 Press and hold BAND for at least 2 seconds.
Returns to normal mode.

- *Stored channels can also be recalled by pressing and holding BAND for at least 2 seconds.*
- *Channel other than Weather or Traffic can also be stored and recalled.*

Instant Replay Function (SIRIUS only)

In SIRIUS mode, the current channel is saved using the Instant Replay memory function. Use this function to pause the channel content at any time. When playback is continued, it will begin at the position it was paused. This function can be used to store up to 44 minutes of audio.

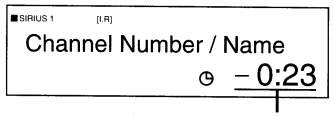
1 During SIRIUS reception, press ►/II /ENT to select the Instant Replay mode.
"INSTANT REPLAY" is displayed, and the received station is stored.

2 Press ►/II /ENT again to select the play mode.
The stored contents are played back.
During REPLAY playback, the "I.R." indicator lights up.

During REPLAY playback:
Fast reverse: Press and hold |◄◄.
Fast forward: Press and hold ►►|.
Returning to the beginning of the current song: Press |◄◄.
Advancing to the beginning of the next song: Press ►►|.

- *If you continue to press Fast forward until the end, the INSTANT REPLAY mode is canceled, and the unit will change to usual reception.*

3 Press Q/ESC for at least 2 seconds to cancel the INSTANT REPLAY mode.
The unit returns to usual SIRIUS broadcasting mode.
Time display example during REPLAY playback (Instant Replay Mode only)



Play Time
(Remaining time for INSTANT REPLAY.)

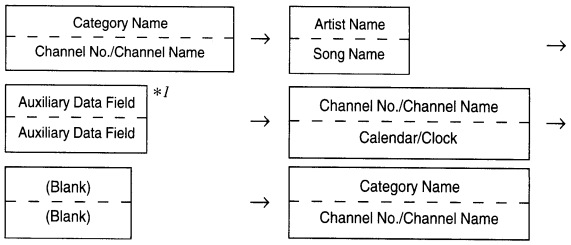
Changing the Display

Text information, such as the channel name, artist name/feature, and song/program title, is available with each XM or Sirius channel. The unit can display this text information as explained below.

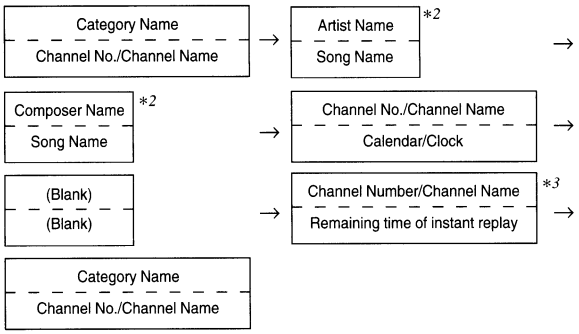
In XM or SIRIUS mode, press TITLE.

Each time you press this button, the display changes as shown below.

XM mode:



SIRIUS mode:



[1] When ADF is turned OFF, this information is not displayed (see "Setting the Auxiliary Data Field Display" on page 29). Displayed in 1 line when text amount is small.

*[2] When the "Scroll Setting" (page 24) is set to "Auto", the display cannot be switched by pressing **TITLE**. The display contents switch alternately.*

[3] Displayed only during instant replay.

- *When the "Scroll Setting" (page 24) is set to "Auto", the display scrolls continuously. When the Scroll Setting is set to "Manual," the display scrolls only once after any function is performed (PRESET, BAND, SEARCH, etc.). "Channel No." and "Calendar/Clock" displays do not scroll.*
- *Depending on the model, the display may differ from the one shown above.*

Setting the Auxiliary Data Field Display

The XM Auxiliary Data Field (ADF) display can be switched on or off. There is no ADF function for the SIRIUS receiver.

1 Press and hold FUNC./SETUP for at least 2 seconds to select the SETUP selection mode.

2 Turn the Rotary encoder to select the TUNER mode, and then press ▶/II /ENT.

Bluetooth ↔ GENERAL ↔ AUDIO ↔ DISPLAY ↔ TUNER* ↔ Bluetooth

** Only when HD Radio/SAT Radio is connected.*

3 Turn the Rotary encoder to select the XM ADF mode, and then press ▶/II /ENT.

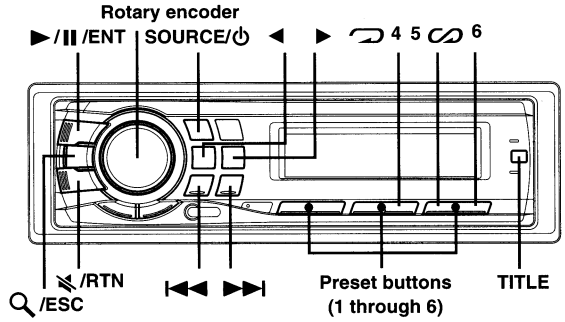
4 Turn the Rotary encoder to select XM ADF ON/ OFF, and then press ▶/II /ENT.

When setting to ON, Auxiliary Data Field is displayed by pressing TITLE (Refer to the "Changing the Display" section page 28).

5 Press and hold FUNC./SETUP for at least 2 seconds to return to normal mode.

- *Pressing ⇘/RTN returns to the previous SETUP mode.*
- *If no operation is performed for 60 seconds, SETUP is canceled.*

iPod® (Optional)



An iPod® can be connected to this unit by using the proprietary ALPINE FULL SPEED™ Connection Cable (KCE-422i) (sold separately). When this unit is connected by using the cable, the controls on the iPod are not functional.

iPods usable with this unit

- The unit can be used with the fourth generation and above iPod, iPod photo, iPod mini or iPod nano. iPod Shuffle cannot be used, however.
- Touch wheel or scroll wheel type iPods without the dock connector cannot be connected to the unit.
- The unit can be used with the following iPod versions. Correct function of earlier versions cannot be guaranteed.

  Fourth generation iPod: Ver. 3.1.1
  Fifth generation iPod: Ver. 1.1.2
  iPod photo: Ver. 1.2.1
  iPod mini: Ver. 1.4.1
  iPod nano: Ver. 1.2

- The unit cannot be used with software versions earlier than "2006-06-28". For details about "iPod Software Update," refer to the iPod Instruction Manual.

Playback

1 Press SOURCE/⏻ to switch to the iPod mode.

TUNER → XM/SIRIUS*[1] → DISC → iPod*[2] → CHANGER*[3] → TUNER

[1] Only when XM Radio or Sirius Radio is connected.
[2] Only when the iPod is connected.
[3] Only when the CD changer is connected.

2 Press I◀◀ or ▶▶I to select the desired song.

Return to the beginning of the current song:
Press I◀◀.

Fast backward:
Press and hold I◀◀.

Advance to the beginning of the next song:
Press ▶▶I.

Fast forward:
Press and hold ▶▶I.

3 To pause playback, press ▶/II /ENT.

Pressing ▶ /II /ENT again will resume playback.

- *A song playing on the iPod while it is connected to this unit will continue to play from where it was paused after disconnection.*

Searching for a desired Song

An iPod can contain hundreds of songs. By using file tag information and keeping these songs organized in playlists, this unit's search functions will ease song searches.
Each music category has its own individual hierarchy. Use the Playlist/Artist/Album/Song/Podcast/Genre/Composer search mode to narrow searches based on the table below.

Hierarchy 1	Hierarchy 2	Hierarchy 3	Hierarchy 4
Playlist	Song	—	—
Artist*	Album*	Song	—
Album*	Song	—	—
Song	—	—	—
Podcast	Episode	—	—
Genre*	Artist*	Album*	Song
Composer*	Album*	Song	—

For example: Searching by Artist name
The following example explains how an ARTIST search is performed. Another search mode can be used for the same operation, although the hierarchy differs.

1 **Press 🔍/ESC to activate the search selection mode.**

2 **Turn the Rotary encoder to select the Artist search mode, and then press ▶/II /ENT.**

Playlist ↔ Artist ↔ Album ↔ Song ↔ Podcast ↔ Genre ↔ Composer ↔ Playlist

3 **Turn the Rotary encoder to select the desired Artist, and then press ▶/II /ENT.**

4 **Turn the Rotary encoder to select an album, and then press ▶/II /ENT.**

5 **Turn the Rotary encoder to select a song and press ▶ /II /ENT.**
The selected song is played back.

- *After pressing and holding ▶/II /ENT for at least 2 seconds while in each hierarchy (except SONG hierarchy), all songs of the selected hierarchy are played back.*
- *After selecting [ALL] in the search mode with "*", press and hold ▶/II /ENT for at least 2 seconds to play back all songs in the iPod or selected search mode.*
- *While in the search mode, if you press and hold 🔍 /ESC for at least 2 seconds, or no operation is performed for 10 seconds, the search mode is canceled.*
- *In the search mode, pressing ↩ /RTN will return to the previous mode.*
- *Search cannot be made during M.I.X. play.*
- *"NO SONG" will be displayed if there is no song in the selected playlist in the playlist search mode.*
- *"NO PODCAST" will be displayed if there is no podcast data in the iPod in the PODCAST search mode.*
- *If "iPod name" stored in the iPod is selected in the desired playlist search mode and ▶/II /ENT is pressed, you can search for all songs in the iPod. Also, if you press and hold ▶/II /ENT for at least 2 seconds, all songs in the iPod are played back.*
- *Depending on the iPod, podcast search is not supported.*
- *If any one of the **preset buttons (1 through 6)** is pressed in the search mode, a search can be made quickly by skipping to the specified location. For details, refer to "Direct Search Function" on page 30.*

Quick Search

You can search a song from all songs in the iPod without selecting an album, artist, etc.

1 **Press and hold 🔍/ESC for at least 2 seconds to activate the Quick Search mode.**

2 **Turn the Rotary encoder to select a desired song.**
The selected song is played back immediately.

- *While in the search mode, if you press and hold 🔍/ESC for at least 2 seconds, or no operation is performed for 10 seconds, the search mode is canceled.*
- *If many songs are in iPod, it takes time to search for songs.*
- *If any one of the **preset buttons (1 through 6)** is pressed in the search mode, a search can be made quickly by skipping to the specified location. For details, refer to "Direct Search Function" on page 30.*

Direct Search Function

The unit's direct search function can be used to search for an album, song, etc., more efficiently. In Playlist/Artist/Album/Song/Podcast/Genre/Composer mode, you can quickly target any song.

In the search mode, press any one of the preset buttons (1 through 6) to quickly skip over a designated percent of your song content.
Song search example:
If there are 100 songs in your iPod, they are divided into 6 groups using percentages (shown below). These groups are assigned to the preset buttons 1 through 6.

Example 1:
Suppose the song you are searching for is located at around the middle (50%) of your library: press button 4 to jump to the 50th song and turn the Rotary encoder to find the desired song.

Example 2:
Suppose the song you are searching for is located near the end (83%) of your library: press button 6 to jump to the 83rd song and turn the Rotary encoder to find the desired song.

	All 100 songs (100%)					
	0%	17%	33%	50%	67%	83%
Preset buttons	1	2	3	4	5	6
Songs	First song	17th song	33rd song	50th song	67th song	83rd song

Select Playlist/Artist/Album/Podcast/ Genre/Composer

Playlist/Artist/Album/Podcast/Genre/Composer can be easily changed. For example, if you listen to a song from a selected album, the album can be changed.

Press ◀ or ▶ select the desired Playlist/Artist/Album/ Podcast/Genre/Composer.

- *If the song search mode was used to select a song, this function is inactive.*
- *If an album is selected during an artist search, other albums by that artist are searchable.*
- *This function is inactive during shuffle (M.I.X.) playback.*

Random Play Shuffle (M.I.X.)

The Shuffle function of the iPod is displayed as M.I.X. on this unit.

Shuffle Albums:
The songs on each album are played back in proper order. Upon completion of all the songs on the album, the next album is selected randomly. This continues until all albums have been played.

Shuffle Songs:
Song shuffle randomly plays back songs within a selected category (playlist, album, etc.). The songs within the category are played just once until all songs have been played.

1 Press 5 .
The songs are played back in random sequence.

M.I.X. 🗀 → M.I.X. → (off) → M.I.X. 🗀
(Shuffle Albums) (Shuffle Songs)

2 To cancel M.I.X. play, select (off) with the above procedure.

- *If a song is selected in the album search mode before selecting M.I.X. play, the songs will not play back randomly even when Shuffle Albums is selected.*

Shuffle ALL:
Shuffle ALL plays all songs in the iPod randomly. Any one song does not play back again until all songs have been played back.

1 Press 6.
The songs are played back in random sequence.

M.I.X. → (off) → M.I.X.
(Shuffle ALL)

2 To cancel M.I.X. play, select (off) with the above procedure.

- *If Shuffle ALL is selected, the selected songs being played back in the search mode are canceled.*

Repeat Play

Only Repeat One is available for the iPod.
Repeat One: A single song is repeatedly played back.

1 Press 4.
The song is played back repeatedly.

RPT → (off) → RPT
(Repeat One)

2 To cancel repeat play, select (off) with the above procedure.

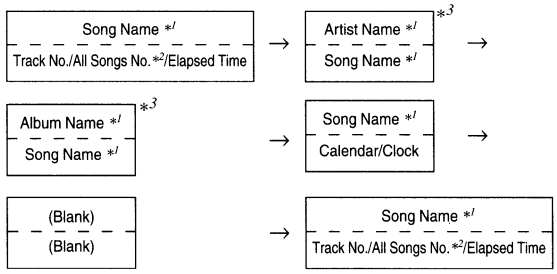
- *During repeat playback, no other songs are selectable by pressing ⏮ or ⏭.*

Displaying the Text

You can display the tag information of a song in the iPod.

Press TITLE.
Each press changes the display.

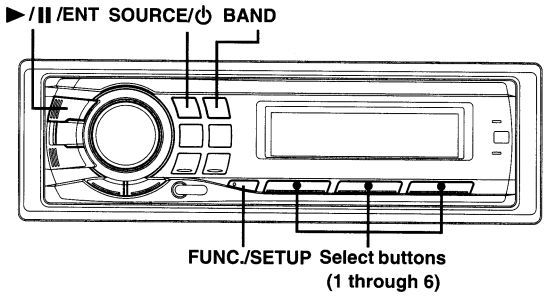
- *If you want to change the display when the Text Scroll is set to Manual, press **TITLE** while the text is scrolling. If the scroll has been completed, press **TITLE** to scroll the text again.*



*1 *TAG information*
If the Scroll Setting (page 24) is set to "Auto", the tag information will scroll automatically.
If there is no text information, nothing will be displayed.
*2 *The numbers of all songs displayed vary depending on the songs selected by the search.*
*3 *When the Scroll Setting (page 24) is set to "Auto", the display cannot be switched by pressing **TITLE**. The display contents switch alternately.*

- *Only alphanumeric characters (ASCII) can be displayed.*
- *If the artist, album or song name, created in iTunes, has too many characters, songs may not be played back when connected to the adapter. Therefore, a maximum of 250 characters is recommended. The maximum number of characters for the head unit is 128 (128 byte).*
- *Some characters may not be correctly displayed.*
- *The display is blank when text information is not compatible with this unit.*

Changer (Optional)



Controlling CD Changer (Optional)

An optional 6-disc or 12-disc CD Changer may be connected to this unit if it is Ai-NET compatible. With a CD Changer connected to the Ai-NET input of this unit, the CD Changer will be controllable from this unit.
Using the KCA-400C (Multi-Changer Switching device) or the KCA-410C (Versatile Link Terminal) multiple changers can be controlled by this unit.
See "Multi-Changer Selection (Optional)" on page 32 for selecting the CD Changers.

- *The controls on this unit for CD Changer operation are operative only when a CD Changer is connected.*
- *The DVD changer (optional) is controllable from this unit as well as the CD changer.*

1 Press SOURCE/⏻ to activate the CHANGER mode.

- *The source indicator varies depending on the connected source.*
- *Press **BAND** to switch the Disc mode in the Changer mode.*

2 Press FUNC./SETUP to activate Disc Selection mode.

Disc Select Mode (Disc No.1~6) → Disc Select Mode * (Disc No.7~12) →

RPT/M.I.X. Mode → Disc Select Mode (Disc No.1~6)

3 Press the disc select buttons (1 through 6) corresponding to one of the discs loaded in the CD Changer.
The selected disc number appears in the display and CD/MP3 playback starts.

- *After selecting the desired disc, you can operate in the same way as for the CD player of this unit.*
  For details, please see the CD/MP3/WMA/AAC section.

* *When a 12-disc CD changer is connected.*

Playing MP3 Files with the CD Changer (Optional)

If you connect a changer compatible with MP3, you can play CD-ROMs, CD-Rs, and CD-RWs containing MP3 files on this unit.

1 Press SOURCE/⏻ to switch to the MP3 Changer mode.

2 Press any one of the disc select buttons (1 through 6) corresponding to one of the discs loaded in the CD Changer.

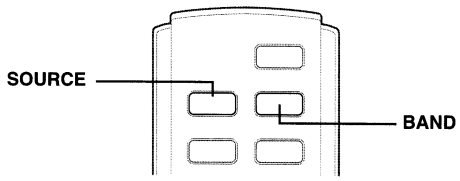
3 To pause playback, press ►/II /ENT.
Pressing ►/II /ENT again will resume playback.

- *The unit can play discs containing both audio data and MP3 data.*
- *For operating MP3 with an MP3 compatible CD Changer, refer to "CD/MP3/WMA/AAC" pages 9 to 12.*

Multi-Changer Selection (Optional)

Alpine's Ai-NET system will support up to 6 CD Changers. When operating two or more changers, the KCA-400C (Multi-Changer Switching device) must be used. If you use 1 Switching device, you can connect up to 4 CD Changers. If you use 2 Switching devices, you can connect up to 6 CD Changers. When using KCA-410C (Versatile Link Terminal), you can connect two changers and two external outputs (AUX).

1 Press SOURCE/⏻ on this unit to activate the CD Changer mode.
Alternatively, press SOURCE on the remote control (RUE-4202) to activate the CD Changer mode.

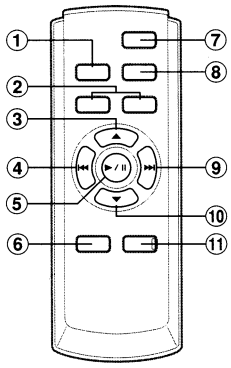


2 Press BAND on this unit or the RUE-4202 to activate the CD Changer Selection mode.
The CD Changer Selection mode remains active for a few seconds.

3 Press BAND until the desired CD Changer indicator appears on the display.
Alternatively press BAND on the Remote Control until the desired changer indicator appears on the display.

- *If the selected CD Changer is not connected, the display will show "NO CHANGER (No.)".*
- *To operate the selected changer, see "CD/MP3/WMA/AAC" (pages 9 to 12).*
- *For further details about the external input (AUX) when using KCA-410C, see "Setting the AUX Mode (V-Link)" on page 23.*

Remote Control



Controls on Remote Control

① **Source Button**
Press this button to select the audio source.

② **Volume Adjustment Buttons**
To increase the volume level:
Press the [Λ] button

To decrease the volume level:
Press the [V] button

③ **▲ Button**
Radio mode: Pressing this button will select, in ascending order, stations programmed into the radio's presets as shown below.

[1] → [2] ... [6] → [1]

CD Changer mode: DISC Select (UP) button
Press this button to select a disc in ascending order.

MP3/WMA/AAC mode: Folder Select (UP) button
Press this button to select the folder.

MP3 compatible CD changer mode:
Folder Select (UP) / DISC Select (UP) button
Press this button to select a folder in ascending order. Press and hold this button to select a disc in ascending order.

iPod mode: Switches Playlist/Artist/Album.

④ **I◄◄ DN Button**
Radio mode: SEEK (DN) Button
CD/iPod mode: Press this button to go back to the beginning of the current track.

⑤ **► /II Button**
Press this button to switch between the Play and Pause modes for CD.

⑥ **Audio Processor Button**
Each press of the button changes the audio processor mode.
For details, refer to "Operating the Audio Processor" as shown below.
Press the button to activate the external audio processor mode when the external audio processor is connected.*1

*1 *For the operation of external audio processor, refer to the Owner's Manual of the external audio processor you purchased.*

⑦ **Power Button**
Press this button to turn the power on/off.

⑧ **Band Button**
Radio mode: BAND Button
Press this button and the band will change.

Changer mode: To switch the changer.

⑨ **►►I UP Button**
Radio mode: SEEK (UP) button
CD/iPod mode: Press this button to advance to the beginning of the next track.

⑩ **▼ Button**
Radio mode: Pressing this button will select, in descending order, stations programmed into the radio's presets as shown below.

[6] → [5] ... [1] → [6]

CD Changer mode: DISC Select (DN) button
Press this button to select a disc in descending order.
MP3/WMA/AAC mode: Folder Select (DN) button
Press this button to select the folder.

MP3 compatible CD changer mode:
Folder Select (DN) / DISC Select (DN) button
Press this button to select a folder in descending order.
Press and hold this button to select a disc in descending order.

iPod mode: Switches Playlist/Artist/Album.

⑪ **Mute Button**
Press this button to lower the volume by 20 dB instantly.
Press this button again to cancel.

Operating the Audio Processor

1 Press A.PROC to select the mode.

Normal mode → T.CORR → X-OVER → Normal mode

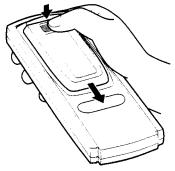
2 Press ▲ or ▼ to select the item.

Time Correction (T.CORR) mode/Crossover (X-OVER) mode:
Select from MEMORY 1 through 6.

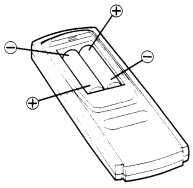
Battery Replacement

Applicable battery: Use two "AAA" sized dry batteries or equivalent.

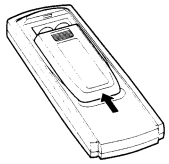
1 **Opening the battery cover**
Slide out the battery cover while firmly pressing in the direction of the arrow.



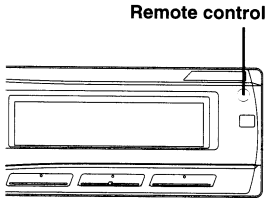
2 **Replacing the battery**
Insert the batteries, observing the polarities as illustrated.



3 **Closing the cover**
Slide the cover as illustrated until a click is heard.



Controllable With Remote Control
Point the remote control transmitter at the remote control sensor.



Connectable to Remote Control Interface Box
This unit may be controlled from the vehicle's audio controls. An optional Alpine Remote Control Interface Box must be used. For details, contact your Alpine dealer.

Information

In Case of Difficulty

If you encounter a problem, please turn the power off, then on again. If the unit is still not functioning normally, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

Basic

No function or display.
- Vehicle's ignition is off.
  - If connected following instructions, the unit will not operate with the vehicle's ignition off.
- Improper power lead (Red) and battery lead (Yellow) connections.
  - Check power lead and battery lead connections.
- Blown fuse.
  - Check the fuse of the unit; replace with the proper value if necessary.
- Internal micro-computer malfunctioned due to interference noise etc.
  - Press the RESET switch with a ballpoint pen or other pointed article.

Radio

Unable to receive stations.
- No antenna or open connection in cable.
  - Make sure the antenna is properly connected; replace the antenna or cable if necessary.

Unable to tune stations in the seek mode.
- You are in a weak signal area.
  - Make sure the tuner is in the DX mode.
- If the area you are in is a primary signal area, the antenna may not be grounded and connected properly.
  - Check your antenna connections; make sure the antenna is properly grounded at its mounting location.
- The antenna may not be the proper length.
  - Make sure the antenna is fully extended; if broken, replace the antenna with a new one.

Broadcast is noisy.
- The antenna is not the proper length.
  - Extend the antenna fully; replace it if it is broken.
- The antenna is poorly grounded.
  - Make sure the antenna is grounded properly at its mounting location.

CD

CD Player/Changer not functioning.
- Out of operating temperature range +50°C (+120°F) for CD.
  - Allow the vehicle's interior (or trunk) temperature to cool.

CD playback sound is wavering.
- Moisture condensation in the CD Module.
  - Allow enough time for the condensation to evaporate (about 1 hour).

CD insertion not possible.
- A CD is already in the CD player.
  - Eject the CD and remove it.
- The CD is being improperly inserted.
  - Make sure the CD is being inserted following instructions in the CD Player Operation section.

Unable to fast forward or backward the CD.
- The CD has been damaged.
  - Eject the CD and discard it; using a damaged CD in your unit can cause damage to the mechanism.

CD playback sound skips due to vibration.
- Improper mounting of the unit.
  - Securely re-mount the unit.
- The disc is very dirty.
  - Clean the disc.
- The disc has scratches.
  - Change the disc.
- The pick-up lens is dirty.
  - Do not use a commercially available lens cleaner disc. Consult your nearest Alpine dealer.

CD playback sound skips without vibration.
- The disc is dirty or scratched.
  - Clean the disc; damaged disc should be replaced.

Error displays (built-in CD player only).
- Mechanical error.
  - Press ⏏. After the error indication disappears, insert the disc again. If the above-mentioned solution does not solve the problem, consult your nearest Alpine dealer.

CD-R/CD-RW playback not possible.
- Close session (finalization) has not been performed.
  - Perform finalization and attempt playback again.

MP3/WMA/AAC

MP3, WMA or AAC is not played back.
- Writing error occurred. The CD format is not compatible.
  - Make sure the CD has been written in a supported format. Refer to "About MP3/WMA/AAC" (pages 11-12), then rewrite in the format supported by this device.

Audio

The sound is not output from the speakers.
- Unit has no output signal of the internal amplifier.
  - Power IC is switched to "ON" (page 23).

iPod

iPod does not play and no sound is output.
- The iPod has not been recognized.
  - Reset this unit and the iPod. Refer to "Initial System Start-Up" (page 7). To reset the iPod, refer to the Owner's Manual of the iPod.

Indication for CD Player

High Temperature

- Protective circuit is activated due to high temperature.
  - The indication will disappear when the temperature returns to normal operating range.

No Disc

- No CD is inserted.
  - Insert a CD.
- Although a disc is inserted, "No Disc" is displayed and the unit does not start to play or eject the disc.
  - Remove the disc by following these steps:
    Press the ⏏ button again for at least 2 seconds.
    If the disc still does not eject, consult your Alpine dealer.

Error

- Mechanism error.
  1) Press the ⏏ button and eject the CD.
     If not ejecting, consult your Alpine dealer.
  2) When the error indication remains after ejecting, press the ⏏ button again.
     If the error indication still does not turn off after pressing the ⏏ button for a few times, consult your Alpine dealer.
- *When "Error" is displayed:*
  If the disc cannot be ejected by pressing ⏏, press the RESET switch (refer to page 7) and press ⏏ again.
  If the disc still cannot be ejected, consult your Alpine dealer.

PROTECT

- A copy-protected WMA file was played back.
  - You can only play back non-copy-protected files.

UNSUPPORTED

- A sampling rate/bit rate not supported by the unit is used.
  - Use a sampling rate/bit rate that is supported by the unit.

Indication for CD Changer

High Temperature

- Protective circuit is activated due to high temperature.
  - The indication will disappear when the temperature returns to normal operating range.

Error 01

- Malfunction in the CD Changer.
  - Consult your Alpine dealer. Press the magazine eject button and pull out the magazine.
    Check the indication. Insert the magazine again.
    If the magazine cannot be pulled out, consult your Alpine dealer.
- Magazine ejection not possible.
  - Press the magazine eject button. If the magazine does not eject, consult your Alpine dealer.

Error 02

- A disc is left inside the CD Changer.
  - Press the eject button to activate the eject function. When the CD Changer finishes the eject function, insert an empty CD magazine into the CD Changer to receive the disc left inside the CD Changer.

No Magazine

- No magazine is loaded into the CD Changer.
  - Insert a magazine.

No Disc

- No indicated disc.
  - Choose another disc.

Indication for SAT Receiver Mode

ANTENNA

- The XM or SIRIUS antenna is not connected to the XM or SIRIUS radio module.
  - Check whether the XM or SIRIUS antenna cable is attached securely to the XM or SIRIUS radio module.

UPDATING

- Radio is being updated with latest encryption code.
  - Wait until encryption code is being updated. Channels 0 and 1 should function normally.

NO SIGNAL (XM mode)

ACQUIRING SIGNAL (SIRIUS mode)

- XM or SIRIUS signal is too weak at the current location.
  - Wait until the car reaches a location with a stronger signal.

LOADING

- Radio is acquiring audio or program information.
  - Wait until the radio has received the information.

OFF AIR (XM mode)

ACQUIRING SIGNAL (SIRIUS mode)

- The channel currently selected has stopped broadcasting.
  - Select another channel.

- - - - - - - - - - - -

- The user has selected a channel number that does not exist or is not subscribed to.
  - The unit will revert back to the previously selected channel.
- There is no artist name/feature, song/program title, or additional information associated with the channel at that time.
  - No action needed.

Error

- If an error or other problem occurs.
  - Change channels or consult your Alpine dealer.

Indication for iPod Mode

No iPod

- The iPod is not connected.
  - Make sure the iPod is correctly connected (refer to "Connections").
    Make sure the cable is not bent excessively.

NO SONG

- There are no songs in the iPod.
  - Download songs to the iPod and connect to this unit.

NO PODCAST

- There is no podcast data in the iPod.
  - Download podcast data to the iPod and connect to this unit.

Error 01

- Communication error
  - Turn the ignition key off, and then set to ON again.
  - Check the display by reconnecting between the iPod and this unit, using the iPod cable.

Error 02

- Caused by the iPod Software Version not being compatible with this unit.
  - Update the iPod Software Version to be compatible with this unit.

Specifications

FM TUNER SECTION

Tuning Range	87.7-107.9 MHz
Mono Usable Sensitivity	9.3 dBf (0.8 µV/75 ohms)
50 dB Quieting Sensitivity	13.5 dBf (1.3 µV/75 ohms)
Alternate Channel Selectivity	80 dB
Signal-to-Noise Ratio	65 dB
Stereo Separation	35 dB
Capture Ratio	2.0 dB

AM TUNER SECTION

Tuning Range	530-1,710 kHz
Sensitivity (IEC Standard)	22.5 µV/27 dB

CD PLAYER SECTION

Frequency Response	5-20,000 Hz (±1 dB)
Wow & Flutter (% WRMS)	Below measurable limits
Total Harmonic Distortion	0.008% (at 1 kHz)
Dynamic Range	95 dB (at 1 kHz)
Signal-to-Noise Ratio	105 dB
Channel Separation	85 dB (at 1 kHz)

PICKUP

Wave length	795 nm
Laser power	CLASS I

REMOTE CONTROL

Battery Type	AAA batteries (2 pcs.)
Width	42 mm (1-21/32")
Height	121 mm (4-25/32")
Depth	23 mm (29/32")
Weight	50 g (1.8 oz)

GENERAL

Power Requirement	14.4 V DC (11-16 V allowable)
Power Output	18 W RMS × 4*

*Primary amplifier ratings per CEA-2006 Standard

- Power output: measured at 4 Ohms and ≤ 1% THD+N
- S/N: 80 dBA (reference: 1 W into 4 Ohms)

Maximum Pre-Output Voltage	4 V/10 k ohms
Bass	+14/–14 dB at 100 Hz
Treble	±14 dB at 10 kHz
Weight	1.5 kg (3 lbs. 4 oz)

CHASSIS SIZE

Width	178 mm (7")
Height	50 mm (2")
Depth	160 mm (6-1/4")

NOSEPIECE SIZE

Width	170 mm (6-3/4")
Height	46 mm (1-13/16")
Depth	24 mm (15/16")

- *Due to continuous product improvement, specifications and design are subject to change without notice.*

Installation and Connections

Before installing or connecting the unit, please read the following and pages 3 to 5 of this manual thoroughly for proper use.

⚠ Warning

MAKE THE CORRECT CONNECTIONS.

Failure to make the proper connections may result in fire or product damage.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.

Failure to do so may result in electric shock or injury due to electrical shorts.

DO NOT SPLICE INTO ELECTRICAL CABLES.

Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.

When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.

Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

KEEP SMALL OBJECTS SUCH AS BATTERIES OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR GEARSHIFT.

Doing so may obstruct forward vision or hamper movement etc. and results in serious accident.

DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS.

Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, gear lever, brake pedals, etc. can be extremely hazardous.

⚠ Caution

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.

The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.

Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.

Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.

Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

Precautions

- Be sure to disconnect the cable from the (–) battery post before installing your CDA-9887. This will reduce any chance of damage to the unit in case of a short-circuit.
- Be sure to connect the color coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system.
- When making connections to the vehicle's electrical system, be aware of the factory installed components (e.g. on-board computer). Do not tap into these leads to provide power for this unit. When connecting the CDA-9887 to the fuse box, make sure the fuse for the intended circuit of the CDA-9887 has the appropriate amperage. Failure to do so may result in damage to the unit and/or the vehicle. When in doubt, consult your Alpine dealer.
- The CDA-9887 uses female RCA-type jacks for connection to other units (e.g. amplifier) having RCA connectors. You may need an adaptor to connect other units. If so, please contact your authorized Alpine dealer for assistance.
- Be sure to connect the speaker (–) leads to the speaker (–) terminal. Never connect left and right channel speaker cables to each other or to the vehicle body.

IMPORTANT

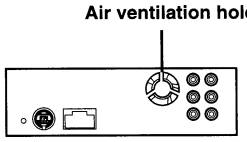
Please record the serial number of your unit in the space provided below and keep it as a permanent record. The serial number or the engraved serial number is located on the bottom of the unit.

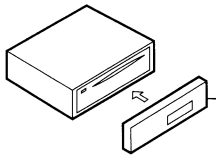
SERIAL NUMBER: _____
INSTALLATION DATE: _____
INSTALLATION TECHNICIAN: _____
PLACE OF PURCHASE: _____

Installation

Caution

Do not block the unit's fan or heat sink, thus preventing air circulation. If blocked, heat will accumulate inside the unit and may cause a fire.

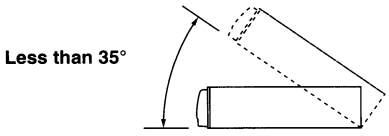




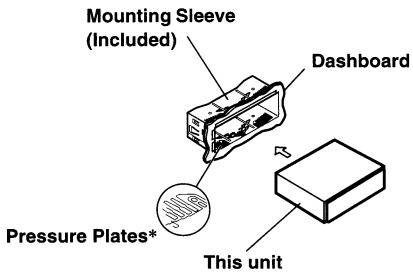
Caution

When you install this unit in your car, do not remove the detachable front panel.
If the detachable front panel is removed during installation, you might press too hard and warp the metal plate that holds it in place.

- *The main unit must be mounted within 35 degrees of the horizontal plane, back to front.*



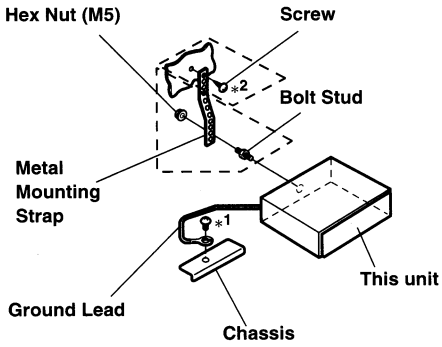
1



* *If the installed mounting sleeve is loose in the dashboard, the pressure plates may be bent slightly to remedy the problem.*

Remove the Detachable Front Panel (refer to page 6). Remove the mounting sleeve from the main unit (see "Removal" on page 39).

2



Reinforce the head unit with the metal mounting strap (not supplied). Secure the ground lead of the unit to a clean metal spot using a screw (*1) already attached to the vehicle's chassis.

- *For the screw marked "*2", use an appropriate screw for the chosen mounting location.*

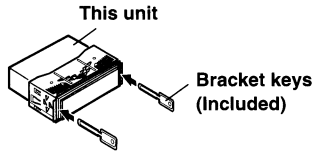
Connect each input lead coming from an amplifier or equalizer to the corresponding output lead coming from the left rear of the CDA-9887. Connect all other leads of the CDA-9887 according to details described in the CONNECTIONS section.

3

Slide the CDA-9887 into the dashboard until it clicks. This ensures that the unit is properly locked and will not accidentally come out from the dashboard. Install the detachable front panel.

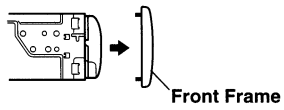
Removal

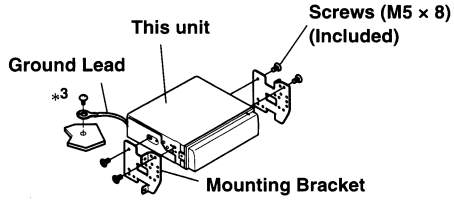
1. Remove the detachable front panel.
2. Insert the bracket keys into the unit, along the guides on either side. The unit can now be removed from the mounting sleeve.



3. Pull the unit out, keeping it unlocked as you do so.

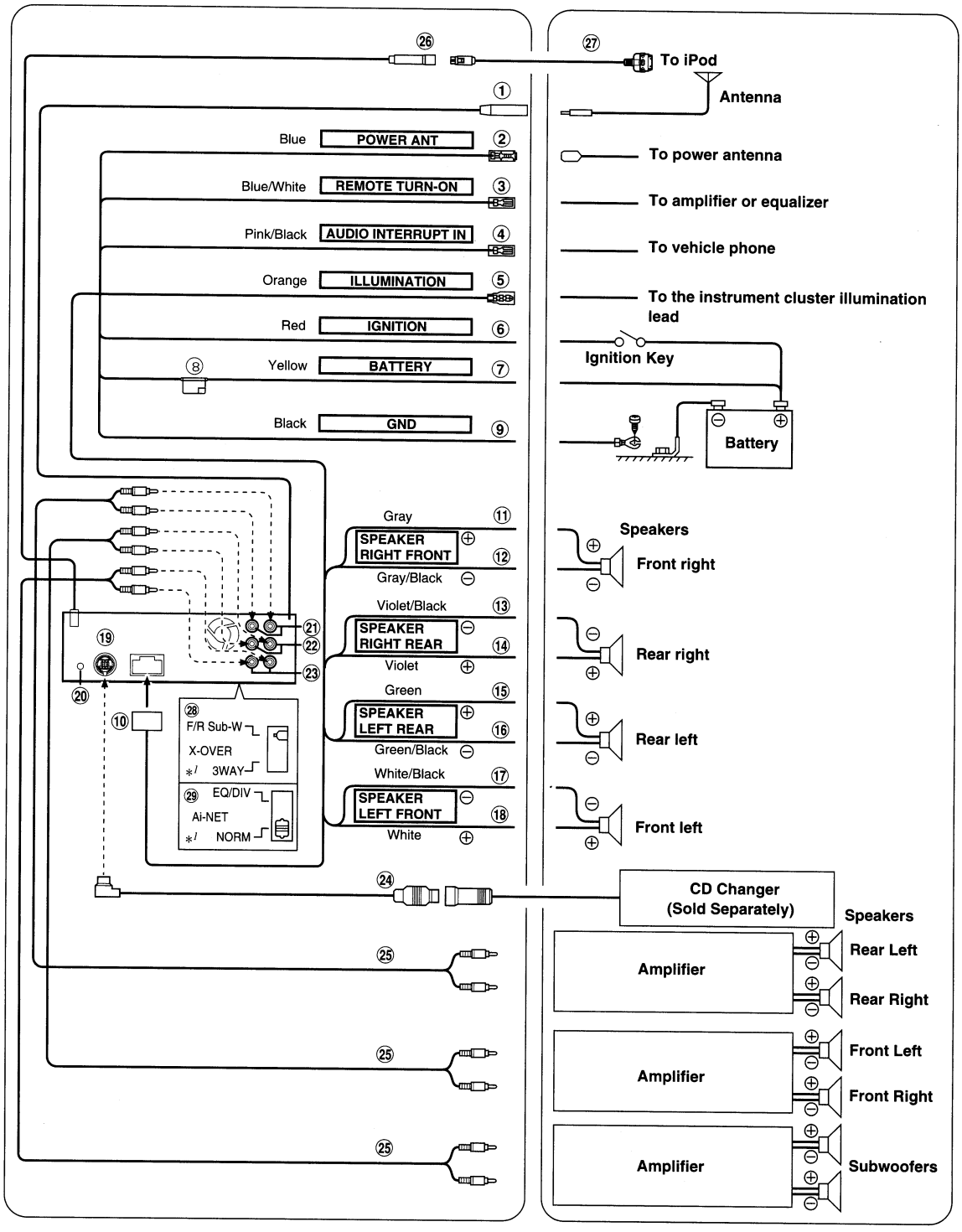
<JAPANESE CAR>





- *Secure the ground lead of the unit to a clean metal spot using a screw (*3) already attached to the vehicle's chassis.*

Connections



*1 *The label is attached on the bottom of the unit.*

① **Antenna Receptacle**

② **Power Antenna Lead (Blue)**
Connect this lead to the +B terminal of your power antenna, if applicable.

- *This lead should be used only for controlling the vehicle's power antenna. Do not use this lead to turn on an amplifier, or a signal processor, etc.*

③ **Remote Turn-On Lead (Blue/White)**
Connect this lead to the remote turn-on lead of your amplifier or signal processor.

④ **Audio Interrupt In Lead (Pink/Black)**
Connect this lead to the Audio interface output of a cellular phone which provides ground shorting when a call is received.

⑤ **Illumination Lead (Orange)**
This lead may be connected to the vehicle's instrument cluster illumination lead. This will allow the backlighting of the CDA-9887 to dim whenever the vehicle's lights are turned on.

⑥ **Switched Power Lead (Ignition) (Red)**
Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+)12V only when the ignition is turned on or in the accessory position.

⑦ **Battery Lead (Yellow)**
Connect this lead to the positive (+) post of the vehicle's battery.

⑧ **Fuse Holder (10A)**

⑨ **Ground Lead (Black)**
Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.

⑩ **Power Supply Connector**

⑪ **Right Front (+) Speaker Output Lead (Gray)**

⑫ **Right Front (–) Speaker Output Lead (Gray/Black)**

⑬ **Right Rear (–) Speaker Output Lead (Violet/Black)**

⑭ **Right Rear (+) Speaker Output Lead (Violet)**

⑮ **Left Rear (+) Speaker Output Lead (Green)**

⑯ **Left Rear (–) Speaker Output Lead (Green/Black)**

⑰ **Left Front (–) Speaker Output Lead (White/Black)**

⑱ **Left Front (+) Speaker Output Lead (White)**

⑲ **Ai-NET Connector**
Connect this to the output or input connector of another device (CD Changer, Equalizer, HD Radio™ TUNER MODULE, etc.) equipped with Ai-NET.

- *Interface adapter for iPod® (KCA-420i) is not recommended for use with this product.*
- *You can input TV/video sound by connecting an optional Ai-NET/ RCA Interface cable (KCA-121B) to this component.*

⑳ **Steering Remote Control Interface Connector**
To steering Remote control interface box.

㉑ **Rear Output RCA Connectors**
RED is right and WHITE is left.

㉒ **Front Output RCA Connectors**
RED is right and WHITE is left.

㉓ **Subwoofer RCA Connectors**
RED is right and WHITE is left.

㉔ **Ai-NET Cable (Included with CD Changer)**

㉕ **RCA Extension Cable (sold separately)**

㉖ **iPod Direct Connector**
Control iPod signals.
Connect this to an iPod or to an optional Bluetooth Box. To use a hands-free mobile phone, an optional Bluetooth Box connection is required. For details on connection, refer to the Owner's Manual of the Bluetooth Box.

㉗ **FULL SPEED™ Connection Cable (KCE-422i) (sold separately)**

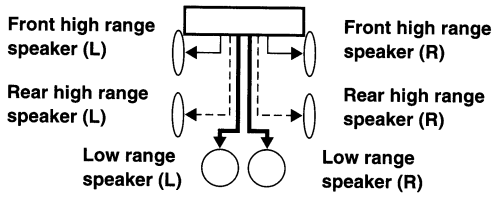
㉘ **Setting the 2.2ch (3WAY) /4.2ch (F/R Sub-W) Switch**
Set the 2.2ch (3WAY) /4.2ch (F/R Sub-W) switch according to your audio system.

㉙ **System Switch**
When connecting a processor or divider using Ai-NET, place this switch in the EQ/DIV position. When no device is connected, leave the switch in the NORM position.

- *Be sure to turn the power off to the unit before changing the switch position.*

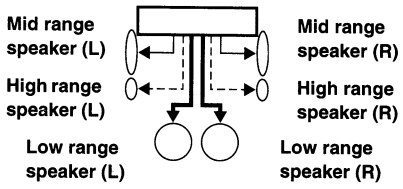
The X-Over Switch position for a 4.2ch system (frequency range is divided between highs for front/rear and lows for the Subwoofer).

The position of the X-Over switch: F/R/Sub-W


Front high range speaker (L)
Front high range speaker (R)
Rear high range speaker (L)
Rear high range speaker (R)
Low range speaker (L)
Low range speaker (R)

The X-Over Switch position for a 2.2ch system whose frequency range is divided among the highs (Rear), mids (Front), and lows (Subwoofer).

The position of the X-Over switch: 3WAY



Output of this unit:

——— **Front output** -------- **Rear output** ——— **SUB-W output**

- *Use the Sub-W output cord to connect the unit to the low range speaker.*
- *You can use the built-in amplifier to output the front output/rear output.*
- *You cannot adjust the fader when set to 3WAY.*

To prevent external noise from entering the audio system.

- Locate the unit and route the leads at least 10 cm away from the car harness.
- Keep the battery power leads as far away from other leads as possible.
- Connect the ground lead securely to a bare metal spot (remove any paint, dirt or grease if necessary) of the car chassis.
- If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various noise suppressors, contact them for further information.
- Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

ALPINE®

GARANTIE LIMITÉE

Fidèles à leur engagement de ne fournir que des produits de qualité, ALPINE ÉLECTRONIQUE DE L'AMÉRIQUE, INC. et ALPINE ÉLECTRONIQUE DU CANADA, INC. (Alpine) sont heureuses de vous offrir cette garantie. Nous vous suggérons de le lire attentivement et en entier. Si vous avez la moindre question, veuillez contacter l'un de nos concessionnaires ou appeler directement Alpine aux numéros listés ci-dessous.

● PRODUITS COUVERTS PAR LA GARANTIE

Cette garantie couvre les produits audio de voiture et les accessoires connexes ("le produit"). Elle ne couvre les produits que dans le pays où ils ont été achetés.

● DURÉE DE LA GARANTIE

Cette garantie est en vigueur pendant un an à partir de la date du premier achat du client.

● PERSONNES PROTÉGÉES PAR LA GARANTIE

Seul l'acheteur original du produit, s'il résisde aux États-Unis, à Porto Rico ou au Canada, peut se prévaloir de la garantie.

● CE QUI EST COUVERT

Cette garantie couvre tous les défauts de matériaux et de fabrication (pièces et main d'œuvre) du produit.

● CE QUI N'EST PAS COUVERT

Cette garantie ne couvre pas ce qui suit:

① Les dommages survenus durant le transport des produits renvoyés à Alpine pour être réparés (les réclamations doivent être adressées au transporteur);
② Les dégâts provoqués par un accident ou une mauvaise utilisation, y compris des bobines acoustiques grillées suite à une surexcitation des enceintes (augmentation du niveau de l'amplificateur jusqu'à atteindre un effet de distorsion ou d'écrêtage), une défaillance mécanique des enceintes (perforations, déchirures ou fentes), panneaux LCD fissurés ou endommagés, disques durs endommagés ou ayant subi une chute.
③ Tout dégât provoqué par négligence, usage inapproprié, mauvaise utilisation ou par le non-respect des instructions indiquées dans le manuel de l'utilisateur.
④ Les dommages dus à la force majeure, notamment aux tremblements de terre, au feu, aux inondations, aux tempêtes ou aux autres cataclysmes naturels;
Les frais ou les dépenses relatifs à l'enlèvement ou à la réinstallation du produit;
⑤ Les services rendus par une personne, physique ou morale non autorisée;
⑥ Les produits dont le numéro de série a été effacé, modifié ou retiré;
⑦ Les produits qui ont été adaptés ou modifiés sans le consentement d'Alpine;
⑧ Les produits qui ne sont pas distribués par Alpine aux Etats-Unis, à Porto Rico ou au Canada;
⑨ Les produits qui n'ont pas été achetés par l'entremise d'un concessionnaire Alpine autorisé;

● COMMENT SE PRÉVALOIR DE LA GARANTIE

① Il vous faut remettre le produit nécessitant des réparations à un centre de service autorisé Alpine ou à Alpine même et en assumer les frais de transport. Alpine a le choix entre réparer le produit ou le remplacer par un produit neuf ou révisé, le tout sans frais pour vous. Si les réparations sont couvertes par la garantie et si le produit a été envoyé à un centre de service Alpine ou à Alpine, le paiement des frais de réexpédition du produit incombe Alpine.
② Vous devez donner une description détaillée des problèmes qui sont à l'origine de votre demande de réparation.
③ Vous devez joindre la preuve de votre achat du produit.
④ Vous devez emballer soigneusement le produit pour éviter tout dommage durant son transport. Pour éviter la perte de l'envoi, il est conseillé de choisir un transporteur qui propose un service de suivi des envois.

● LIMITATION DES GARANTIES TACITES

LA DURÉE DE TOUTES LES GARANTIES TACITES, Y COMPRIS LA GARANTIE D'ADAPTATION À L'UTILISATION ET LA GARANTIE DE QUALITÉ LOYALE ET MARCHANDE, EST LIMITÉE À CELLE DE LA GARANTIE EXPRESSE DÉTERMINÉE CI-DESSUS. PERSONNE N'EST AUTORISÉ À ENGAGER AUTREMENT LA RESPONSABILITÉ D'ALPINE EN VERTU DE LA VENTE D'UN PRODUIT.

● EXCLUSIONS DE LA GARANTIE

ALPINE STIPULE EXPRESSÉMENT QU'ELLE N'EST PAS RESPONSABLE DES DOMMAGES-INTÉRÊTS ET DOMMAGES INDIRECTS PROVOQUÉS PAR LE PRODUIT. LES DOMMAGES-INTÉRÊTS SONT LES FRAIS DE TRANSPORT DU PRODUIT VERS UN CENTRE DE SERVICE ALPINE, LA PERTE DE TEMPS DE L'ACHETEUR ORIGINAL, LA PERTE D'UTILISATION DU PRODUIT, LES BILLETS D'AUTOBUS, LA LOCATION DE VOITURES ET TOUS LES AUTRES FRAIS LIÉS À LA GARDE DU PRODUIT.
LES DOMMAGES INDIRECTS SONT LES FRAIS DE RÉPARATION OU DE REMPLACEMENT D'AUTRES BIENS ENDOMMAGÉS SUITE AU MAUVAIS FONCTIONNEMENT DU PRODUIT.
LES RECOURS PRÉVUS PAR LES PRÉSENTES EXCLUENT ET REMPLACENT TOUTE AUTRE FORME DE RECOURS.

● LIEN ENTRE LA GARANTIE ET LA LOI

La garantie vous donne des droits spécifiques, mais vous pouvez aussi jouir d'autres droits, qui varient d'un état ou d'une province à l'autre. En outre, certains états et certaines provinces interdisent de limiter la durée des garanties tacites ou d'exclure les dommages accessoires ou indirects. Dans ce cas, les limites et les exclusions de la garantie peuvent ne pas s'appliquer à vous.

● CLAUSE APPLICABLE AU CANADA SEULEMENT

Pour que la garantie soit valable, il faut qu'un centre d'installation autorisé ait installé le système audio pour l'auto dans votre véhicule et qu'il ait ensuite apposé son cachet sur la garantie.

● NUMÉROS D'APPEL DU SERVICE À LA CLIENTÈLE

Si vous avez besoin de nos services, veuillez appeler Alpine aux numéros ci-dessous pour le centre de service autorisé Alpine le plus proche.

AUDIO DE VOITURE	**1-800-ALPINE-1 (1-800-257-4631)**
NAVIGATION	**1-888-NAV-HELP (1-888-628-4357)**

Ou visitez notre site Web à l'adresse http://www.alpine-usa.com

ALPINE ÉLECTRONIQUE DE L'AMÉRIQUE, INC., 19145 Gramercy Place, Torrance, California 90501, U.S.A.
ALPINE ÉLECTRONIQUE DU CANADA, INC., 777 Supertest Road, Toronto, Ontario M3J 2M9, Canada
N'envoyez aucun produit à ces adresses.
Appelez notre numéro gratuit ou visitez notre site Web si vous recherchez un centre de service.

ALPINE®

LIMITED WARRANTY

ALPINE ELECTRONICS OF AMERICA, INC. AND ALPINE OF CANADA INC. ("Alpine"), are dedicated to quality craftsmanship and are pleased to offer this Warranty. We suggest that you read it thoroughly. Should you have any questions, please contact your Dealer or contact Alpine at one of the telephone numbers listed below.

● PRODUCTS COVERED:

This Warranty covers Car Audio Products and Related Accessories ("the product"). Products purchased in the Canada are covered only in the Canada. Products purchased in the U.S.A. are covered only in the U.S.A.

● LENGTH OF WARRANTY:

This Warranty is in effect for one year from the date of the first consumer purchase.

● WHO IS COVERED:

This Warranty only covers the original purchaser of the product, who must reside in the United States, Puerto Rico or Canada.

● WHAT IS COVERED:

This Warranty covers defects in materials or workmanship (parts and labor) in the product.

● WHAT IS NOT COVERED:

This Warranty does not cover the following:

① Damage occurring during shipment of the product to Alpine for repair (claims must be presented to the carrier).
② Damage caused by accident or abuse, including burned voice coils caused by over-driving the speaker (amplifier level is turned up and driven into distortion or clipping). Speaker mechanical failure (e.g. punctures, tears or rips). Cracked or damaged LCD panels. Dropped or damaged hard drives.
③ Damage caused by negligence, misuse, improper operation or failure to follow instructions contained in the Owner's manual.
④ Damage caused by act of God, including without limitation, earthquake, fire, flood, storms or other acts of nature.
Any cost or expense related to the removal or reinstallation of the product.
⑤ Service performed by an unauthorized person, company or association.
⑥ Any product which has the serial number defaced, altered or removed.
⑦ Any product which has been adjusted, altered or modified without Alpine's consent.
⑧ Any product not distributed by Alpine within the United States, Puerto Rico or Canada.
⑨ Any product not purchased from an Authorized Alpine Dealer.

● HOW TO OBTAIN WARRANTY SERVICE:

① You are responsible for delivery of the product to an Authorized Alpine Service Center or Alpine for repair and for payment of any initial shipping charges. Alpine will, at its option, repair or replace the product with a new or reconditioned product without charge. If the repairs are covered by the warranty, and if the product was shipped to an Authorized Alpine Service Center or Alpine, Alpine will pay the return shipping charges.
② You should provide a detailed description of the problem(s) for which service is required.
③ You must supply proof of your purchase of the product.
④ You must package the product securely to avoid damage during shipment. To prevent lost packages it is recommended to use a carrier that provides a tracking service.

● HOW WE LIMIT IMPLIED WARRANTIES:

ANY IMPLIED WARRANTIES INCLUDING FITNESS FOR USE AND MERCHANTABILITY ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE AND NO PERSON IS AUTHORIZED TO ASSUME FOR ALPINE ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT.

● HOW WE EXCLUDE CERTAIN DAMAGES:

ALPINE EXPRESSLY DISCLAIMS LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES CAUSED BY THE PRODUCT. THE TERM "INCIDENTAL DAMAGES" REFERS TO EXPENSES OF TRANSPORTING THE PRODUCT TO THE ALPINE SERVICE CENTER, LOSS OF THE ORIGINAL PURCHASER'S TIME, LOSS OF THE USE OF THE PRODUCT, BUS FARES, CAR RENTALS OR OTHERS COSTS RELATING TO THE CARE AND CUSTODY OF THE PRODUCT. THE TERM "CONSEQUENTIAL DAMAGES" REFERS TO THE COST OF REPAIRING OR REPLACING OTHER PROPERTY WHICH IS DAMAGED WHEN THIS PRODUCT DOES NOT WORK PROPERLY. THE REMEDIES PROVIDED UNDER THIS WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS.

● HOW STATE/PROVINCIAL LAW RELATES TO THE WARRANTY:

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state and province to province. In addition, some states/provinces do not allow limitations on how long an implied warranty lasts, and some do not allow the exclusion or limitation of incidental or consequential damages. Accordingly, limitations as to these matters contained herein may not apply to you.

● IN CANADA ONLY:

This Warranty is not valid unless your Alpine car audio product has been installed in your vehicle by an Authorized Installation Center, and this warranty stamped upon installation by the installation center.

● HOW TO CONTACT CUSTOMER SERVICE:

Should the product require service, please call the following number for your nearest Authorized Alpine Service Center.

CAR AUDIO	**1-800-ALPINE-1 (1-800-257-4631)**
NAVIGATION	**1-888-NAV-HELP (1-888-628-4357)**

Or visit our website at; http://www.alpine-usa.com

ALPINE ELECTRONICS OF AMERICA, INC., 19145 Gramercy Place, Torrance, California 90501, U.S.A.
ALPINE ELECTRONICS OF CANADA, INC., 777 Supertest Road, Toronto, Ontario M3J 2M9, Canada
Do not send products to these addresses.
Call the toll free telephone number or visit the website to locate a service center.

To customers/Hinweis an Kunden/A l'attention de l'utilisateur/
Información para los clientes/Informazioni per i clienti/Till kunder/
致客户/致客户

The Owner's Manual has revision as shown here.
Die Bedienungsanleitung wird wie folgt ergänzt.
Le Mode d'emploi a subi les modifications suivantes.
El Manual de operación contiene las revisiones incluidas aquí.

English

- **Add a note after steps 4 and 5 (refer to "Adjusting and Storing the Time Correction") respectively.**

4 **Turn the Rotary encoder to adjust the distance (0.0 to 336.6cm).**
L = (distance to farthest speaker) – (distance to other speakers)
Refer to "Time Difference Table".

5 **Repeat steps 3 and 4 to set another speaker.**
By setting these values to make its sound reach the listening position at the same time as the sound of other speakers.

Deutsch

- **Ergänzung eines Hinweises nach den Schritten 4 bzw. 5 (siehe „Einstellen der Laufzeitkorrektur und Speichern von Einstellungen").**

4 **Drehen Sie den Drehschalter, um die Entfernung einzustellen (0,0 bis 336,6 cm).**
L = (Entfernung zum am weitesten entfernten Lautsprecher) – (Entfernung zu anderen Lautsprechern)
Siehe „Zeitverzögerungstabelle".

5 **Wiederholen Sie die Schritte 3 und 4 für andere Lautsprecher.**
Durch das Einstellen dieser Werte erreicht der Ton des Lautsprechers die Hörposition zur gleichen Zeit wie der Ton aus den anderen Lautsprechern.

Français

- **Ajoutez une note après les étapes 4 et 5 respectivement (reportez-vous à la section « Réglage et mémorisation de la correction du temps »).**

4 **Tournez le bouton rotatif pour régler la distance (0,0 à 336,6 cm).**
L = (distance qui vous sépare de l'enceinte la plus éloignée) – (distance qui vous sépare des autres enceintes)
Reportez-vous à la section « Tableau des différences de temps ».

5 **Répétez les étapes 3 et 4 pour régler une autre enceinte.**
Définissez ces valeurs afin que le son de cette enceinte et celui des autres enceintes atteignent la position d'écoute en même temps.

Español

- **Añada una nota tras los pasos 4 y 5 (consulte "Ajuste y almacenamiento de la corrección de tiempo") respectivamente.**

4 **Gire el codificador rotatorio para ajustar la distancia (de 0,0 a 336,6 cm).**
L = (distancia al altavoz más alejado) – (distancia al resto de altavoces)
Consulte "Tabla de diferencias de tiempo".

5 **Repita los pasos 3 y 4 para ajustar otro altavoz.**
Mediante el ajuste de estos valores, el sonido llega a la posición de escucha al mismo tiempo que el sonido del resto de los altavoces.

68-09359Z35-A (Y)

Il manuale di istruzioni è stato revisionato in base alle indicazioni sotto riportate.
Bruksanvisningen har den revision som visas här.
本用戶說明書有如下訂正。
本用户说明书有如下订正。

Italiano

- **Aggiunta di una nota dopo i punti 4 e 5 (vedere "Regolazione e salvataggio della correzione del tempo").**

4 Ruotare il codificatore a rotazione per regolare la distanza. (da 0,0 a 336,6 cm).

L=(distanza dall'altoparlante più lontano) – (distanza dagli altri altoparlanti)
Vedere "Tabella differenza di tempo".

5 Per configurare un altro altoparlante, ripetere i punti 3 e 4.

Impostare questi valori in modo che il suono raggiunga la posizione di ascolto nello stesso momento del suono emesso dagli altri diffusori.

Svenska

- **Lägg till en anmärkning efter steg 4 respektive 5 (se "Justera och lagra tidskorrigering").**

4 Vrid vridkontrollen för att ställa in avståndet (0,0 till 336,6 cm).

L=(avstånd till mest avlägsna högtalare) – (avstånd till övriga högtalare)
Se "Tidsskillnadstabell".

5 Upprepa steg 3 till 4 om du vill ställa in fler högtalare.

Genom att ställa in dessa värden kommer dess ljud att nå avlyssningsläget samtidigt som ljudet från andra högtalare.

中文（繁）

- **分別在步驟 4 和 5（參見 "調節和儲存時間校正"）後面追加注釋。**

4 旋轉 Rotary encoder 調節距離（0.0 至 336.6 cm）。

L =（至最遠揚聲器的距離）－（至其他揚聲器的距離）
參見 "時間差異表"。

5 重複步驟 3 與 4，設定其他揚聲器。

通過這些數值（距離）的設定，可使其它各揚聲器的聲音到達聆聽者位置所用時間相同。

中文（简）

- **分别在步骤 4 和 5（参见 " 调节和储存时间校正 "）后面追加注释。**

4 旋转 Rotary encoder 调节距离（0.0 至 336.6 cm）。

L =（至最远扬声器的距离）－（至其它扬声器的距离）
参见 "时间差异表"。

5 重复步骤 3 与 4，设定其它扬声器。

通过这些数值（距离）的设定，可使其它各扬声器的声音到达聆听者位置所用时间相同。

ALPINE Customer Care Registration → For easy on-line registration, go to "www.alpine-usa.com/registration"

Thank you for choosing Alpine! Please register your product with us so we can serve you better.

SEAL HERE

First name: _____

Last name: _____

Home address: _____
Street address

_____

_____ _____ _____
City State/Prov. Zip Code

May we contact you at this address? 1. ☐ Yes 2. ☐ No

Phone number: ( ) _____

May we contact you at this number? 1. ☐ Yes 2. ☐ No

E-mail Address: _____

May we contact you by e-mail? 1. ☐ Yes 2. ☐ No

Gender 1. ☐ Male 2. ☐ Female

Date of Birth Month: _____ Year: _____

Marital Status 1. ☐ Single 2. ☐ Married

Which ethnicity best describes yourself:

1. ☐ Caucasian
2. ☐ Hispanic
3. ☐ African-American
4. ☐ Asian
5. ☐ Other _____

Your highest level of education completed:

1. ☐ High School Student
2. ☐ High School Graduate
3. ☐ 2 Yr. Degree/Some College
4. ☐ Completed 4 Yr. College
5. ☐ Completed Graduate School

Product purchased

1. ☐ Cassette Player
2. ☐ CD Player
3. ☐ MD Player
4. ☐ DVD Player
5. ☐ CD Changer
6. ☐ Amplifier
7. ☐ Speaker
8. ☐ Subwoofer
9. ☐ Monitor Controller
10. ☐ Video Monitor
11. ☐ Navigation
12. ☐ Mobile Mayday
13. ☐ Video Tape Player
14. ☐ Processor/Equalizer
15. ☐ Security
16. ☐ Other _____

Model Number: _____

Serial Number: _____

Date of Purchase:

Month: _____ Year: _____

If navigation system, which monitor?

1. ☐ Alpine → (Model No.) _____
2. ☐ Other → (Brand Name) _____

Purpose of buying this unit?

1. ☐ Addition
2. ☐ Replacement → ***Previous brand replaced?**
   1. ☐ Factory installed
   2. ☐ Alpine
   3. ☐ Other _____

Have you purchased Alpine products before?

1. ☐ First time 2. ☐ Two or more times

When you purchased this Alpine unit, did you compare it with other brands?

1. ☐ Yes ↓ (Brand Name) _____ 2. ☐ No.

Which of the following statements best describes you?

1. ☐ I usually have more electronic equipment than my friends
2. ☐ I am usually one of the first of my friends to buy the newest electronic equipment
3. ☐ I usually wait until a product has been out for a while before I purchase it
4. ☐ I am usually on of the first of my friends to know about the newest car
5. ☐ I usually know more about cars than my friends

Occupation

1. ☐ Executive/Managerial
2. ☐ Secretarial/Clerical
3. ☐ Sales
4. ☐ General Labor
5. ☐ Professional
6. ☐ Engineering/Technical
7. ☐ Farming/Fishing
8. ☐ Retired
9. ☐ Student
10. ☐ Other _____

Household Income

1. ☐ Less than $30,000
2. ☐ $30,000 - $50,000
3. ☐ $50,000 - $70,000
4. ☐ $70,000 - $90,000
5. ☐ $90,000 - $110,000
6. ☐ Over $110,000

Type of vehicle in which this unit is installed.

Make: _____ Model: _____

Purchased Year: _____ Model Year: _____

How was this vehicle purchased?

1. ☐ Bought 2. ☐ Leased

SEAL HERE

Thank you for your cooperation! We value your privacy. This information will remain confidential with Alpine and its affiliates.

Customer Care Registration is for Product registration.
Failure to complete and return this card does not diminish your warranty rights.

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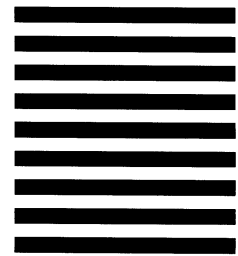

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